- DC UPS
- Standby UPS
- Line Interactive UPS
- Online UPS
- Outdoor UPS
- AVR



In our world, everything is built to last.



VOLTRONIC POWER TECHNOLOGY CORP.

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Voltronic Power Overview

Voltronic Power Technology Corp. established by Alex Hsieh has over 20 years of experience in DMS (Design and Manufacturing Service) of power products. Headquartered in Taiwan, Voltronic Power is committed to providing high quality products and services to meet diverse customers' requirements. With the same diligent customer-oriented spirit, Voltronic Power is dedicated to continuously designing, manufacturing, marketing, and introducing a complete line of UPSs, inverters, and solar power products to the demanding power market.

To meet customers' demand, we have expanded our manufacturing factory to 3 for sufficient capacity of production. Our R&D center is co-located with manufacturing to offer efficient operation. We have solid and richly-experienced engineering teams dedicated to product development. Voltronic Power guarantees reliable product development and consistent manufacturing guality, from raw materials to finished products to punctually fulfill its delivery deadlines.

Voltronic Power is a truly remarkable company, with a strong history of service, innovation and growth. Voltronic Power's professional team is ready to start a new chapter in the global power market.

Mission Statement & Corporate Vision







To become a worldwide leading DMS provider by developing both customized products and exclusive marketing intelligence for customers:

We focus 100% on creating customers' brands and dedicate ourselves to developing innovative power products and marketing intelligence for customers.

To develop a reputation in the power industry as a trusted and reliable partner:

We understand that "Good Products" are the core competence for company development. Therefore, we are dedicated to developing innovative and reliable products to customers through the continuous development and investment in our R&D center.

Build strong relationships with customers to strengthen customers' brands and market growth: We help customers to develop their own brands and enlarge their market share because we strongly believe that customers are the key growth engine for Voltronic Power.

Continue developing the latest innovations, including eco-friendly and green products:

As global citizens, Voltronic Power is committed to reducing the environmental impact of our operations and products.

Key Values to Customers

- Secured Information Management: With over 20 years of professional experience in the power market, we've managed power knowledge, market trends, and know-how with our customers. In the meanwhile, our customers' privacy has already been the most valued core for us to earn trusted relationships.
- Innovative Design: Leveraging 20 years of our professional experience in the power market, we've been highly aware of the market change and helped our customers attune to the dynamics of the industry. We've been dedicated to developing new technology and implementing innovative ideas in our products, but not always me-too outcome.
- Quality Manufacturing: Conforming with ISO-9001 and ISO-14001 certification, we have built up unmatched quality control systems from incoming components to finished products.
- Satisfied Service: We provide exclusive assistance and swift customer service, from product design and marketing packages to technical support.
- Total Quality Assurance System: From design, and manufacture, to service, we offer a Total Quality Assurance System to guarantee high-quality and reliable products and services. Our total quality system has been audited and approved by globally respected companies.



















CFL UPS



- 40W DC UPS
- Equipped with one lamp holder for energy saving bulb
- 3 set of DC-powered outlets for energy saving bulb
- Off-mode charging
- Overload protection in battery mode and short circuit protection
- Three indicators available
- 3-step charging design to extend battery life

Devices:





CFL UPS Specification

| <u> </u> | |
|--|---|
| MODEL | CFL UPS |
| CAPACITY | 50VA/40 W |
| INPUT | |
| Nominal Voltage | 230 VAC |
| Voltage Range | 100 VAC - 300 VAC |
| OUTPUT | |
| Output Voltage (AC Mode) | 100 VDC - 300 VDC |
| Output Voltage (Batt. Mode) | 160-230 VDC ± 10% |
| Waveform (Batt. Mode) | DC Output |
| BATTERY & CHARGER | |
| Battery Type and Numbers | 12V 7Ah x 1 |
| Battery Voltage | 12 VDC |
| Bulk charging voltage | 14.5V ±1.5% |
| Floating Voltage | 13.7V ±1.5% |
| Charging Current | 1 A |
| Typical Recharge Time | 6 hours recover to 90% capacity |
| INDICATORS | |
| Full battery at Line Mode | Green lighting |
| Charging battery at Line Mode | Green flashing every 2 seconds |
| Normal battery voltage at Battery Mode | Yellow lighting |
| Low battery at Battery Mode | Yellow flashing every second |
| Output short-circuited | Red lighting |
| Overload | Red flashing rapidly every 0.5 second |
| Overcharge | Red LED staying on for one second and off for 4 seconds |
| PHYSICAL | |
| Dimension, D x W x H (mm) | 209 x 87 x 200 |
| Net Weight (kgs) | 2.7 |
| ENVIRONMENT | |
| Humidity | 0-90 % RH @ 0-40°C (non-condensing) |
| Noise Level | Less than 40dB |
| | |

| Backup Time Table: | |
|-----------------------|-----------|
| 11W lighting bulb x 1 | 6 Hours |
| 11W lighting bulb x 2 | 3 Hours |
| 11W lighting bulb x 3 | 2 Hours |
| 11W lighting bulb x 4 | 1.5 Hours |



ePower DC UPS



- Built-in Li-ion battery
- Microprocessor controller guarantees high reliability
- Auto start when plugged in
- Manual power off switch
- Multi-color indicator
- Overload, short-circuit, over-charge and over-discharge protection



| Backup Time Table : (For Reference) | | | | | |
|-------------------------------------|----------|--|--|--|--|
| 12V/1A Router | 150 mins | | | | |
| 12V/1.5A Router | 120 mins | | | | |
| 12V/2.0A Router | 90 mins | | | | |

ePower DC UPS Specification

| MODEL | | ePower | | | | | |
|------------------|---------------------|--|--|--|--|--|--|
| AC INF | UT | | | | | | |
| Voltage | Range | 90 VAC ~ 264 VAC | | | | | |
| Frequency | | 50 or 60 Hz | | | | | |
| Surge protection | | 1.5KV (Optional K.21 enhanced, 6KV) | | | | | |
| DC OUTPUT | | | | | | | |
| Voltage | | 12VDC ± 5% | | | | | |
| Max. Power | | 25W (2.1A) | | | | | |
| BATTERY | | | | | | | |
| Туре | | Lithium-ion Battery | | | | | |
| Voltage | | 3.7VDC | | | | | |
| Capaci | у | 2600mAh | | | | | |
| Typical | Charging Time | 3 hours recover to 90% capacity | | | | | |
| PROTE | CTION | | | | | | |
| Battery | | Deep Discharge, Over-charge and Short Circuit Protection | | | | | |
| Input/Output | | Fuse for Short Circuit and Overload Protection | | | | | |
| INDICATORS | | | | | | | |
| | Full Battery | Green lighting | | | | | |
| LED | Battery Charging | Constant flashing on Green LED | | | | | |
| LED | Battery Discharging | Quick flashing on Green LED | | | | | |
| Fault | | Red lighting | | | | | |
| PHYSIC | CAL | | | | | | |
| Input P | ug | Mounted on the housing (NEMA/EU/UK) | | | | | |
| Output | Cable | 1m Length (DC Male Jack, OD 4mm, ID 1.7mm) | | | | | |
| Dimens | ion, D x W x H (mm) | 68 x 42 x 74 | | | | | |
| Net We | ight (g) | 280 | | | | | |
| | | | | | | | |

Nano

- 400VA/600VA/800VA standby UPS
- Compact size with stand and wall mounting flexibility
- Auto restart while AC is recovering
- Simulated sine wave output
- Cold start function
- Full protection: discharge, overcharge, short circuit, and thermal protection

Nano-APFC

- 400VA/600VA/800VA standby UPS
- High frequency design
- Suitable for active PFC equipped personal computers
- Auto restart while AC is recovering
- Simulated sine wave output
- Cold start function
- Optional USB communication port and RJ-11/RJ-45 protection

Scudo

- 400VA/600VA standby UPS
- Compact size with local receptacles for easy use
- Excellent microprocessor control guarantees high reliability
- · Auto restart while AC is recovering
- Simulated sine wave output
- Cold start function
- · Simple and easy installation & operation







Standby UPS Selection Guide

| Nano 400 | Nano 600 | Nano 800 | Nano-APFC 400 | Nano-APFC 600 | Nano-APFC 800 | Scudo 400 | Scudo 600 | | |
|--|--|--|--|--|--------------------|---------------------|-------------------|--|--|
| 400 VA / 240 W | 600 VA / 360 W | 800 VA / 480 W | 400 VA / 240 W | 600 VA / 360 W | 800 VA / 480 W | 400 VA / 200 W | 600 VA / 300 W | | |
| | | | | | | | | | |
| | 1 | 10/120 VAC or 2 | 220/230/240 VA | С | | 220/230/ | 240 VAC | | |
| | 90 - 145 VAC or 180 - 270 VAC 180 - 270 VAC | | | | | | | | |
| 50Hz or 60Hz (Auto sensing) 50 Hz | | | | | | | | | |
| | | | | | | | | | |
| | 1 | 10/120 VAC or 2 | 220/230/240 VA | С | | 220/230/ | 240 VAC | | |
| | ± 10% ± 10% | | | | | | | | |
| | 50Hz or 60Hz ± 1 Hz 50Hz ± 1 Hz | | | | | | | | |
| | | | 2-6 | ms | | | | | |
| | Simulated Sinewave | | | | | | | | |
| | | | | | | | | | |
| 12 V/ 4.5 Ah x 1 | 12 V / 7 Ah x 1 | 12 V / 9 Ah x 1 | 12 V/ 4.5 Ah x 1 | 12 V / 7 Ah x 1 | 12 V / 9 Ah x 1 | 12 V/ 4.5 Ah x 1 | 12 V/ 5 Ah x 1 | | |
| 8 hours recover to 90% capacity | | | | | | | | | |
| | | | | | | | | | |
| | Green lighting | | | | | | | | |
| | Green flashing every 10 seconds | | | | | | | | |
| | Green flashing every second and red lighting | | | | | | | | |
| | Red lighting | | | | | | | | |
| ALARM | | | | | | | | | |
| | | | Sounding eve | ry 10 seconds | | | | | |
| | Sounding every second | | | | | | | | |
| Continuously sounding | | | | | | | | | |
| PHYSICAL | | | | | | | | | |
| 228 x 82.5 x 207 (Vertically stand) 166 x 161 x 89.2 | | | | | | | 31 x 89.2 | | |
| 2.2 | 2.2 2.7 3.1 2.2 2.7 3.1 | | | | | | | | |
| | | | | | | | | | |
| | | | 0-9 | 0 % | | | | | |
| | | | 0- 40°C (non | -condensing) | | | | | |
| | | | | | | | | | |
| | N/A | | | | | N | /A | | |
| | 12 V/ 4.5 Ah x 1 | 400 VA / 240 W 360 W 1 12 V / 12 V / 4.5 Ah x 1 7 Ah x 1 2.2 2.7 | 400 VA / 240 W 360 W 480 W 480 W 110/120 VAC or 3 90 - 145 VAC or 50Hz or 60Hz 110/120 VAC or 3 50Hz or 60Hz 50Hz or 60 Green Green 228 x 82.5 x 207 2.2 2.7 3.1 | 400 VA / 240 W 360 VA / 800 VA / 400 VA / 240 W 110/120 VAC or 220/230/240 VA 90 - 145 VAC or 180 - 270 VAC 50Hz or 60Hz (Auto sensing) 110/120 VAC or 220/230/240 VA ± 10% 50Hz or 60Hz (Auto sensing) 110/120 VAC or 220/230/240 VA ± 10% 50Hz or 60Hz ± 1 Hz 2-6 Simulated 4.5 Ah x 1 7 Ah x 1 9 Ah x 1 4.5 Ah x 1 8 hours recover Green flashing every sensing every se | ## A00 | 400 VA | 400 | | |



AKA



- 350VA/400VA/550VA/600VA/750VA/800VA Standby UPS
- Compact size for stand and mounting flexibility
- Auto restart while AC is recovering
- Simulated sine wave output
- Cold start function
- Optional USB communication port
- Optional 5V USB charger
- Optional RJ11 and coax surge protection
- Optional LCD version is also available by request
- Bypass Surge Protection Outlets
- Easy Battery Replacement
- Optional HID Power Device USB port

AKA Standby UPS Selection Guide

| 350VA / 210W | 550 VA / 330 W | | 1 | 1 | | |
|--|------------------------------|--|---|---|----------------|--|
| | 330 VA / 330 W | 750 VA / 450 W | 400VA / 240W | 600 VA / 360 W | 800 VA / 480 W | |
| | | | | | | |
| | 110/120 VAC | | | 220/230/240 VAC | | |
| | 90 - 145 VAC 180 - 270 VAC | | | | | |
| | 60 Hz / 50 Hz (Auto sensing) | | | | | |
| | | | | | | |
| | 110/120 VAC 220/230/240 VAC | | | | | |
| | | ±1 | 0% | | | |
| | | 60 Hz or 50 | Hz ±1 Hz | | | |
| | | Typical 2-6 m | s, Max. 10ms | | | |
| | | Simulated | Sinewave | | | |
| | | | | | | |
| 12V/4Ah x 1 | 12 V/4.5Ah x 1 | 12 V/5Ah x 1 | 12 V/4Ah x 1 | 12 V/4.5Ah x 1 | 12 V/5Ah x 1 | |
| 8 hours recover to 90% capacity | | | | | | |
| RS . | | | | | | |
| Green lighting | | | | | | |
| Yellow flashing | | | | | | |
| Red lighting | | | | | | |
| | | | | | | |
| | | Sounding eve | ry 10 seconds | | | |
| | Sounding every second | | | | | |
| | Sounding every 0.5 second | | | | | |
| | | Continuous | ly sounding | | | |
| | | | | | | |
| Overload, discharge, and overcharge protection | | | | | | |
| | | | | | | |
| 305 x 158.5 x 95 | | | | | | |
| 2.5 | 2.6 | 2.9 | 2.5 | 2.6 | 2.9 | |
| | | | | | | |
| | 0- | -90 % RH @ 0- 40° | °C (Non-condensin | g) | | |
| | | Less that | an 40dB | | | |
| | 2.5 | 90 - 145 VAC 110/120 VAC 12V/4Ah x 1 | 90 - 145 VAC 60 Hz / 50 Hz 110/120 VAC ±11 60 Hz or 50 Typical 2-6 m Simulated 12V/4Ah x 1 | 90 - 145 VAC 60 Hz / 50 Hz (Auto sensing) 110/120 VAC ±10% 60 Hz or 50 Hz ±1 Hz Typical 2-6 ms, Max. 10ms Simulated Sinewave 12V/4Ah x 1 12 V/4.5Ah x 1 12 V/5Ah x 1 12 V/4Ah x 1 8 hours recover to 90% capacity Green lighting Yellow flashing Red lighting Sounding every 10 seconds Sounding every second Sounding every second Continuously sounding Overload, discharge, and overcharge protests 305 x 158.5 x 95 2.5 2.6 2.9 2.5 | 90 - 145 VAC | |

Apex



- 400VA/600VA/800VA/1KVA/1.5KVA/2KVA line interactive UPS
- Touch screen LCD to display UPS information circularly (option)
- Compact size
- Boost and buck AVR for voltage stabilization
- Auto restart while AC is recovering
- Off-mode charging
- Cold start function
- Generator compatible (option)
- No load shutdown in battery mode for 800VA and below models.
- Optional HID Power Device USB port

Apex Line Interactive UPS Selection Guide

| MODEL | _ | Apex 400 | Apex 600 | Apex 800 | Apex 1K | Apex 1.5K | Apex 2K | |
|--------------|--|--|-----------------------|--------------------|---------------------|-----------------------|------------------|--|
| CAPAC | CITY | 400 VA / 240 W | 600 VA / 360 W | 800 VA / 480 W | 1000 VA / 600 W | 1500 VA / 900 W | 2000 VA / 1200 W | |
| INPUT | | | | | | | | |
| Voltage | | | | 110/120 VAC or 2 | 220/230/240 VAC | | | |
| Voltage | Range | | | 81-145 VAC / | 162-290 VAC | | | |
| Freque | ncy Range | | | 60/50 Hz (A | uto sensing) | | | |
| OUTPU | IT | | | | | | | |
| Output | Voltage | | | 110/120 VAC or 2 | 220/230/240 VAC | | | |
| AC Volt | age Regulation (Batt. Mode) | | | ± 1 | 0% | | | |
| Freque | ncy Range (Batt. Mode) | | 50 Hz or 60 Hz ± 1 Hz | | | | | |
| Transfe | r Time | | | Typical | 2-6 ms | | | |
| Wavefo | rm (Batt. Mode) | | | Simulated | Sinewave | | | |
| BATTE | RY | | | | | | | |
| Battery | Type & Number | 12 V/4.5 Ah x 1 | 12 V/7 Ah x 1 | 12 V/9 Ah x 1 | 12 V/7 Ah x 2 | 12 V/9 Ah x 2 | 12 V/9 Ah x 2 | |
| Typical | Typical Recharge Time 4 hours recover to 90% capacity 4-6 hours recover to | | | | | urs recover to 90% of | apacity | |
| PROTE | ECTION | | | | | | | |
| Full Pro | tection | Overload, discharge, and overcharge protection | | | | | | |
| INDICA | TORS | | | | | | | |
| LCD Mo | odel | Input voltage, output voltage, battery capacity, load level and UPS status | | | | | | |
| | AC Mode | | Green lighting | | | | lighting | |
| LED Model | Battery Mode | | Green | Yellow | flashing | | | |
| | Fault | | N | /A | | Red lighting | | |
| ALARM | 1 | | | | | | | |
| Battery | Mode | | | Sounding eve | ry 10 seconds | | | |
| Low Ba | ttery | | | Sounding e | very second | | | |
| Overloa | ad | | | Sounding eve | ry 0.5 second | | | |
| Fault | | | | Continuous | ly sounding | | | |
| PHYSIC | CAL | | | | | | | |
| LED | Dimension, D x W x H (mm) | | 279 x 101 x 142 | | | 320 x 130 x 182 | | |
| Model | Net Weight (kgs) | 3.55 | 4.2 | 4.9 | 8.2 | 10.4 | 10.6 | |
| LCD | Dimension, D x W x H (mm) | | 300 x 101 x 142 | | | 320 x 130 x 182 | | |
| Model | Net Weight (kgs) | 3.7 | 4.4 | 5.0 | 8.2 | 10.4 | 10.6 | |
| ENVIR | ONMENT | | | | | | | |
| Humidit | ty | | | 0-90 % RH @ 0- 40° | °C (Non-condensing) | 1 | | |
| Noise L | evel | | | Less tha | an 40dB | | | |
| D 1 1 | Product specifications are subject to change without further notice | | | | | | | |



Library



- 600VA/1KVA/2KVA simulated sine wave output
- Boost and buck AVR for voltage stabilization
- Selectable charging current
- Auto restart while AC is recovering
- Off-mode charging
- Cold start function
- Built-in super charger supporting long backup with external battery
- Generator compatible (option)



Library Line Interactive UPS Selection Guide

| CAPACITY INPUT Voltage Acceptable Voltage Range Frequency Range OUTPUT AC Voltage Regulation (Batt. Mode) Frequency Range (Batt. Mode) Transfer Time Waveform (Batt. Mode) BATTERY Battery Voltage Floating Charging Voltage Maximum Charge Current (Adju PROTECTION Full Protection INDICATORS Line Mode Battery Mode Fault ALARM Low Battery Overload Battery Replacement Alarm Fault PHYSICAL | 600 VA / 360 W | 1000 VA / 600 W 220/230 VAC 140 - 300 VAC 50Hz | 2000 VA / 1200 W | | | | | |
|---|--|---|------------------|--|--|--|--|--|
| Voltage Acceptable Voltage Range Frequency Range OUTPUT AC Voltage Regulation (Batt. Mode) Frequency Range (Batt. Mode) Transfer Time Waveform (Batt. Mode) BATTERY Battery Voltage Floating Charging Voltage Maximum Charge Current (Adju PROTECTION Full Protection INDICATORS Line Mode Battery Mode Fault ALARM Low Battery Overload Battery Replacement Alarm Fault | | 140 - 300 VAC | | | | | | |
| Acceptable Voltage Range Frequency Range OUTPUT AC Voltage Regulation (Batt. Mode) Frequency Range (Batt. Mode) Transfer Time Waveform (Batt. Mode) BATTERY Battery Voltage Floating Charging Voltage Maximum Charge Current (Adju PROTECTION Full Protection INDICATORS Line Mode Battery Mode Fault ALARM Low Battery Overload Battery Replacement Alarm Fault | | 140 - 300 VAC | | | | | | |
| Frequency Range OUTPUT AC Voltage Regulation (Batt. Mode) Frequency Range (Batt. Mode) Transfer Time Waveform (Batt. Mode) BATTERY Battery Voltage Floating Charging Voltage Maximum Charge Current (Adju PROTECTION Full Protection INDICATORS Line Mode Battery Mode Fault ALARM Low Battery Overload Battery Replacement Alarm Fault | | | | | | | | |
| OUTPUT AC Voltage Regulation (Batt. Mode) Frequency Range (Batt. Mode) Transfer Time Waveform (Batt. Mode) BATTERY Battery Voltage Floating Charging Voltage Maximum Charge Current (Adju PROTECTION Full Protection INDICATORS Line Mode Battery Mode Fault ALARM Low Battery Overload Battery Replacement Alarm Fault | | 50Hz | | | | | | |
| AC Voltage Regulation (Batt. Mode) Frequency Range (Batt. Mode) Transfer Time Waveform (Batt. Mode) BATTERY Battery Voltage Floating Charging Voltage Maximum Charge Current (Adju PROTECTION Full Protection INDICATORS Line Mode Battery Mode Fault ALARM Low Battery Overload Battery Replacement Alarm Fault | | | 50Hz | | | | | |
| Frequency Range (Batt. Mode) Transfer Time Waveform (Batt. Mode) BATTERY Battery Voltage Floating Charging Voltage Maximum Charge Current (Adju PROTECTION Full Protection INDICATORS Line Mode Battery Mode Fault ALARM Low Battery Overload Battery Replacement Alarm Fault | | | | | | | | |
| Transfer Time Waveform (Batt. Mode) BATTERY Battery Voltage Floating Charging Voltage Maximum Charge Current (Adju PROTECTION Full Protection INDICATORS Line Mode Battery Mode Fault ALARM Low Battery Overload Battery Replacement Alarm Fault | | 220/230 ± 10% | | | | | | |
| Waveform (Batt. Mode) BATTERY Battery Voltage Floating Charging Voltage Maximum Charge Current (Adju PROTECTION Full Protection INDICATORS Line Mode Battery Mode Fault ALARM Low Battery Overload Battery Replacement Alarm Fault | | 50 Hz ±1 Hz | | | | | | |
| BATTERY Battery Voltage Floating Charging Voltage Maximum Charge Current PROTECTION Full Protection INDICATORS Line Mode Battery Mode Fault ALARM Low Battery Overload Battery Replacement Alarm Fault | | Typical 4-8 ms | | | | | | |
| Battery Voltage Floating Charging Voltage Maximum Charge Current PROTECTION Full Protection INDICATORS Line Mode Battery Mode Fault ALARM Low Battery Overload Battery Replacement Alarm Fault | | Simulated Sinewave | | | | | | |
| Floating Charging Voltage Maximum Charge Current PROTECTION Full Protection INDICATORS Line Mode Battery Mode Fault ALARM Low Battery Overload Battery Replacement Alarm Fault | | | | | | | | |
| Maximum Charge Current (Adju PROTECTION Full Protection INDICATORS Line Mode Battery Mode Fault ALARM Low Battery Overload Battery Replacement Alarm Fault | 12 VDC 24 VI | | | | | | | |
| PROTECTION Full Protection INDICATORS Line Mode Battery Mode Fault ALARM Low Battery Overload Battery Replacement Alarm Fault | 13.7 VI | OC ± 2% | 27.4 VDC ± 2% | | | | | |
| Full Protection INDICATORS Line Mode Battery Mode Fault ALARM Low Battery Overload Battery Replacement Alarm Fault | 2.5A/6A/10A 5A/10A/15A/20A (Adjustable from manufacturer) (Adjustable from manufacturer) | | | | | | | |
| INDICATORS Line Mode Battery Mode Fault ALARM Low Battery Overload Battery Replacement Alarm Fault | | | | | | | | |
| Line Mode Battery Mode Fault ALARM Low Battery Overload Battery Replacement Alarm Fault | Overload, discharge, and overcharge protection | | | | | | | |
| Battery Mode Fault ALARM Low Battery Overload Battery Replacement Alarm Fault | | | | | | | | |
| Fault ALARM Low Battery Overload Battery Replacement Alarm Fault | | Green lighting | | | | | | |
| ALARM Low Battery Overload Battery Replacement Alarm Fault | | Yellow flashing | | | | | | |
| Low Battery Overload Battery Replacement Alarm Fault | | Red lighting | | | | | | |
| Overload Battery Replacement Alarm Fault | | | | | | | | |
| Battery Replacement Alarm Fault | | Sounding every second | | | | | | |
| Fault | | Sounding every 0.5 second | | | | | | |
| 1 22.1 | Sounding every 2 seconds | | | | | | | |
| PHYSICAL | Continuously sounding | | | | | | | |
| | | | | | | | | |
| Dimension, D x W x H (mm) | 358.5 x 96.8 x 146.5 | 395 x 145 | 5 x 220 | | | | | |
| Net Weight (kgs) | 5.8 | 9.0 | 13.55 | | | | | |
| ENVIRONMENT | | | | | | | | |
| Humidity | 0 to 90% Relative Humidity (Non-condensing) | | | | | | | |
| Noise Level | 0 to | Less than 40dB | | | | | | |

Prime





- 550VA/700VA/850VA/1000VA/1200VA/1350VA/1500VA simulated sine wave output
- Boost AVR for voltage stabilization
- Comprehensive LCD for real-time UPS status
- Provides battery backup and surge protected outputs
- Easy replacement battery compartment
- Optional hot-swappable battery design
- ENERGY STAR qualified for 120Vac models
- Built-in USB com. port and RJ-45 network protect
- Opional coax surge protection for TV antenna
- Optional 5V USB charger port for mobile devices
- Optional HID Power Device USB port

Prime Line Interactive UPS Selection Guide

| MODEL | Prime 550 | Prime 550 Prime 700 Prime 850 Prime 1000 Prime 1200 Prime 1350 Prime 1500 | | | | | | |
|------------------------------------|--------------------------------------|---|-----------------|--------------------------------------|--------------------|----------------|---------------|--|
| CAPACITY | 550VA / 330W | 700VA / 420W | 850VA / 510W | 1000VA / 600W | 1200VA / 720W | 1350VA / 810W | 1500VA / 900W | |
| INPUT | | | | | | | | |
| Voltage | | | 110/120 | VAC or 220/230/2 | 240VAC | | | |
| Voltage Range | | 81-132\ | /AC / 86-142VAC | or 162-270VAC / 1 | 70-270VAC / 176- | -270VAC | | |
| Frequency Range | | | 50 Hz / 6 | 60 Hz ± 5Hz (Auto | Sensing) | | | |
| OUTPUT | | | | | | | | |
| Output Voltage | | | 110/120 | VAC or 220/230/2 | 240 VAC | | | |
| AC Voltage Regulation (Batt. Mode) | | ± 5% | | | | | | |
| Frequency Range (Batt. Mode) | | 50 Hz / 60 Hz ± 1Hz | | | | | | |
| Transfer Time | | | 6r | ns typical, 10ms m | nax | | | |
| Waveform (Batt. Mode) | | | | Simulated Sineway | /e | | | |
| BATTERY | | | | | | | | |
| Battery Type & Number | 12 V/7Ah x 1 | 12 V/7 Ah x 1 | 12 V/9 Ah x 1 | 12 V/9 Ah x 1 | 12 V/9 Ah x 2 | 12 V/9 Ah x 2 | 12 V/9 Ah x 2 | |
| Typical Recharge Time | | 6-8 hours recover to 90% capacity | | | | | | |
| PROTECTION | | | | | | | | |
| Full Protection | | Overload, discharge, and overcharge protection | | | | | | |
| INDICATORS | INDICATORS | | | | | | | |
| LCD Display | Input/output volt | Input/output voltage, Input/output frequency, Load level in VA, Load level in watts, Battery capacity and Estimated remaining runtime (Site wiring fault indicator only available for 110/120VAC) | | | | | | |
| ALARM | | | | | | | | |
| Battery Mode | | | Sour | nding every 10 sec | onds | | | |
| Low Battery | | | Sc | unding every seco | ond | | | |
| Overload | | | Soul | nding every 0.5 se | cond | | | |
| Fault | | | Co | ontinuously soundi | ng | | | |
| PHYSICAL | PHYSICAL | | | | | | | |
| Dimension, D x W x H (mm) | | 288 x 9 | 9 x 280 | | | 410 x 99 x 280 | | |
| Net Weight (kgs) | 6.6 | 7.6 | 7.6 | 8.8 | 11 | 11.6 | 12 | |
| ENVIRONMENT | | | | | | | | |
| Humidity | 0-90 % RH @ 0- 40°C (Non-condensing) | | | | | | | |
| Noise Level | | Less than 40dB Less than 45dB | | | | | | |
| MANAGEMENT | | | | | | | | |
| Optional USB Port | | Supports Win | dows® 2000/2003 | /XP/Vista/2008, W | indows* 7/8/10, Li | inux and MAC | | |
| Compliance & Standards | 11 | 0/120VAC model: | | d:UL 1778), FCC P 40VAC model: CE | | NERGY STAR (US | 6A) | |



Evolution



- Compact size
- Boost and buck AVR for voltage stabilization
- Auto restart while AC is recovering
- Simulated sine wave output
- Off-mode charging
- Cold start function
- Generator compatible (option)
- Optional 5V USB charging port
- Compact size for stand and mounting flexibility

Evolution Line Interactive UPS Selection Guide

| MODEL | Evolution 400 Evolution 600 Evolution 800 | | | | | | |
|--|--|------------------------------------|---------------|--|--|--|--|
| CAPACITY | 400 VA / 240 W | 800 VA / 480 W | | | | | |
| INPUT | | | | | | | |
| Voltage | | 110/120 VAC or 220/230/240 VAC | | | | | |
| Voltage Range | 81-145 VAC / 162-290 VAC | | | | | | |
| Frequency Range | 60/50 Hz (auto sensing) | | | | | | |
| ОИТРИТ | | | | | | | |
| Voltage | | 110/120 VAC or 220/230/240 VAC | | | | | |
| AC Voltage Regulation (Batt. Mode) | | ±10% | | | | | |
| Frequency Range (Batt. Mode) | | 60 Hz or 50 Hz ±1 Hz | | | | | |
| Transfer Time | | Typical 2-6 ms, 10 ms max. | | | | | |
| Waveform (Batt. Mode) | | Simulated Sinewave | | | | | |
| BATTERY | | | | | | | |
| Battery Type & Number | 12 V 4.5 Ah x 1 | 12 V/5 Ah x 1 | 12 V/5 Ah x 1 | | | | |
| Typical Recharge Time | 4-6 hours recover to 90% capacity | | | | | | |
| PROTECTION | | | | | | | |
| Full Protection | Overload, discharge, and overcharge protection | | | | | | |
| INDICATORS | | | | | | | |
| AC Mode | | Green lighting | | | | | |
| Battery Mode | | Green flashing | | | | | |
| ALARM | | | | | | | |
| Battery Mode | | Sounding every 10 seconds | | | | | |
| Low Battery | | Sounding every second | | | | | |
| Overload | Sounding every 0.5 second | | | | | | |
| Fault | Continuously sounding | | | | | | |
| PHYSICAL | | | | | | | |
| Dimension, D x W x H (mm) | 245 x 163 x 90 | | | | | | |
| Net Weight (kgs) | 3.5 | 4.0 | 4.5 | | | | |
| ENVIRONMENT | | | | | | | |
| Humidity | 0 to | 90% Relative Humidity (Non-condens | sing) | | | | |
| Noise Level | | Less than 40dB | | | | | |
| roduct specifications are subject to change without further notice | | | | | | | |

Prosine

- 600VA/800VA line interactive sine wave UPS
- Digitalized PWM-based controller provides pure sinewave output
- Perfect power protection for mini servers & gaming PCs
- Boost and buck AVR for voltage stabilization
- Optional USB and RJ11/RJ45 protection
- Offering LED and LCD panels for selection
- Off-mode charging and cold start function



Imperial

- 750VA/1KVA/1.5KVA/2KVA line interactive sine wave UPS
- Digitalized PWM-based controller provides pure sinewave output
- Perfect power protection for servers, point-of-sale and workstations
- · Boost and buck AVR for voltage stabilization
- Optional USB and RJ45 protection
- Off-mode charging and cold start function



Line Interactive sine wave UPS Selection Guide

| CAPACITY INPUT Voltage Voltage Range Frequency Range OUTPUT AC Voltage Regulation (Batt. Mode) Frequency Range (Batt. Mode) Transfer Time Waveform (Batt. Mode) BATTERY Battery Type & Number Typical Recharge Time PROTECTION Full Protection INDICATORS | 600 VA / 360 W | 800 VA / 480 W | | 162-290 VAC | 1500 VA / 1050 W | 2000 VA / 1400W | | | | | | |
|--|---|-------------------|----------------------|----------------------|-------------------------|--------------------------|--|--|--|--|--|--|
| Voltage Voltage Range Frequency Range OUTPUT AC Voltage Regulation (Batt. Mode) Frequency Range (Batt. Mode) Transfer Time Waveform (Batt. Mode) BATTERY Battery Type & Number Typical Recharge Time PROTECTION Full Protection | | | 81-145 VAC / | 162-290 VAC | | | | | | | | |
| Voltage Range Frequency Range OUTPUT AC Voltage Regulation (Batt. Mode) Frequency Range (Batt. Mode) Transfer Time Waveform (Batt. Mode) BATTERY Battery Type & Number Typical Recharge Time PROTECTION Full Protection | | | 81-145 VAC / | 162-290 VAC | | | | | | | | |
| Frequency Range OUTPUT AC Voltage Regulation (Batt. Mode) Frequency Range (Batt. Mode) Transfer Time Waveform (Batt. Mode) BATTERY Battery Type & Number Typical Recharge Time PROTECTION Full Protection | | | | | | | | | | | | |
| OUTPUT AC Voltage Regulation (Batt. Mode) Frequency Range (Batt. Mode) Transfer Time Waveform (Batt. Mode) BATTERY Battery Type & Number Typical Recharge Time PROTECTION Full Protection | | | 60/50 Hz (A | uto sensing) | | 81-145 VAC / 162-290 VAC | | | | | | |
| AC Voltage Regulation (Batt. Mode) Frequency Range (Batt. Mode) Transfer Time Waveform (Batt. Mode) BATTERY Battery Type & Number Typical Recharge Time PROTECTION Full Protection | | | | | 60/50 Hz (Auto sensing) | | | | | | | |
| Frequency Range (Batt. Mode) Transfer Time Waveform (Batt. Mode) BATTERY Battery Type & Number Typical Recharge Time PROTECTION Full Protection | | | 1400/ | | | | | | | | | |
| Transfer Time Waveform (Batt. Mode) BATTERY Battery Type & Number Typical Recharge Time PROTECTION Full Protection | | | ±10% | | | | | | | | | |
| Waveform (Batt. Mode) BATTERY Battery Type & Number Typical Recharge Time PROTECTION Full Protection | | | 50 Hz or 60 | Hz ± 1 Hz | | | | | | | | |
| BATTERY Battery Type & Number Typical Recharge Time PROTECTION Full Protection | | | Typical 2-6 m | s, 10ms max. | | | | | | | | |
| Battery Type & Number Typical Recharge Time PROTECTION Full Protection | | | Pure Si | newave | | | | | | | | |
| Typical Recharge Time PROTECTION Full Protection | | | | | | | | | | | | |
| PROTECTION Full Protection | 12 V / 7Ah x 1 | 12 V / 9Ah x 1 | 12 V / 9 Ah x 1 | 12 V / 7Ah x 2 | 12 V / 9 Ah x 2 | 12 V / 10 Ah x 2 | | | | | | |
| Full Protection | 4 hours recover to 90% capacity 6 hours recover to 90% capacity | | | | | | | | | | | |
| | PROTECTION | | | | | | | | | | | |
| INDICATORS | Overload, discharge, and overcharge protection | | | | | | | | | | | |
| | | | | | | | | | | | | |
| LCD Display | AC Mode, Battery | Mode, Load Level, | Battery Level, Input | Voltage, Output Volt | age, Overload, Fault | , and Low Battery | | | | | | |
| ALARM | | | | | | | | | | | | |
| Battery Mode | | | Sounding eve | ry 10 seconds | | | | | | | | |
| Low Battery | | | Sounding e | very second | | | | | | | | |
| Overload | | | Sounding eve | ry 0.5 second | | | | | | | | |
| Battery Replacement Alarm | | | Sounding eve | ery 2 seconds | | | | | | | | |
| Fault | | | Continuous | ly sounding | | | | | | | | |
| PHYSICAL | | | | | | | | | | | | |
| Dimension, D x W x H (mm) | 328 x 10 | 00 x 145 | 350 x 14 | 16 x 160 | 397 x 14 | 46 x 205 | | | | | | |
| Net Weight (kgs) | 5.2 | 6.0 | 6.8 | 9.0 | 12.2 | 13.7 | | | | | | |
| ENVIRONMENT | | | | | | | | | | | | |
| Humidity | 0-90 % RH @ 0- 40°C (Non-condensing) | | | | | | | | | | | |
| Noise Level | Less tha | an 40dB | Less tha | an 45dB | Less tha | an 55dB | | | | | | |
| MANAGEMENT | MANAGEMENT | | | | | | | | | | | |
| USB & RS-232 Ports | | | | | | | | | | | | |



Atlas









- Pure sine wave output
- AVR for voltage stabilization
- Comprehensive LCD for real-time UPS status
- Provides battery backup and surge protected outlets
- Easy replacement battery compartment
- Optional hot-swappable battery design
- ENERGY STAR qualified for 120Vac models
- Built-in USB com. port and RJ-45 network surge protection
- Optional 5V USB charger port for mobile device
- Optional coax surge protection for TV antenna
- Off mode charging
- Cold Start function

Atlas ine Interactive sine wave UPS Selection Guide

| MODEL | Atlas 600 | Atlas 800 | Atlas 1000 | Atlas 1200 | Atlas 1500 | | | | |
|---|---|---|--------------------------|-------------------------|---------------|--|--|--|--|
| CAPACITY | 600 VA / 360 W | 600 VA / 360 W 800 VA / 480 W 1000 VA / 600 W 1200 VA / 720 W 1500 VA | | | | | | | |
| INPUT | | | | | | | | | |
| Voltage | | 110/ | 120 VAC or 220/230/240 | VAC | | | | | |
| Voltage Range | | 81~134VAC/89~145VAC or 162~268VAC/170~280VAC/177~290VAC | | | | | | | |
| Frequency Range | | 50 | /60 Hz ± 5Hz(Auto sensi | ng) | | | | | |
| ОИТРИТ | | | | | | | | | |
| Voltage | | 110/ | 120 VAC or 220/230/240 | VAC | | | | | |
| AC Voltage Regulation (Batt. Mode) | | ±10% | | | | | | | |
| Frequency Range (Batt. Mode) | | | 60 Hz or 50 Hz ±1 Hz | | | | | | |
| Transfer Time | | | 6ms typical, 10ms max | | | | | | |
| Waveform (Batt. Mode) | | | Pure Sinewave | | | | | | |
| BATTERY | ERY | | | | | | | | |
| Battery Type & Number | 12 V/7 Ah x 1 | 12 V/9 Ah x 1 | 12 V/10 Ah x 1 | 12 V/7 Ah x 2 | 12 V/9 Ah x 2 | | | | |
| Typical Recharge Time | 6-8 hours recover to 90% capacity | | | | | | | | |
| PROTECTION | | | | | | | | | |
| Full Protection | Overload, discharge, and overcharge protection | | | | | | | | |
| NDICATORS | | | | | | | | | |
| LCD Display | Input/output voltage, input/output frequency, laod in VA/Watts, battery capacity, estimated remaining runtime, site wiring fault indications. | | | | | | | | |
| ALARM | | | | | | | | | |
| Battery Mode | | S | ounding every 10 secon | ds | | | | | |
| Low Battery | | | Sounding every second | | | | | | |
| Overload | | S | Sounding every 0.5 secon | nd | | | | | |
| Fault | | | Continuously sounding | | | | | | |
| PHYSICAL | | | | | | | | | |
| Dimension, D x W x H (mm) | 288 x 99 x 280 410 x 99 x 280 | | | | | | | | |
| Net Weight (kgs) | 8.3 8.4 8.5 11.3 13.1 | | | | | | | | |
| ENVIRONMENT | | | | | | | | | |
| Humidity | | 0-90 % | RH @ 0- 40°C (Non-con | densing) | | | | | |
| Noise Level | | Less than 40dB | | Less tha | an 45dB | | | | |
| MANAGEMENT | | | | | | | | | |
| Optional USB/RS-232 Port | | Supports Windows® 20 | 00/2003/XP/Vista/2008/ | 7, Linux, Unix, and MAC | | | | | |
| Product specifications are subject to change without further notice | | | | | | | | | |

Otima II



- Pure sine wave
- User-friendly and easy-shift LCD display
- High flexibility with Rack/Tower design
- Output power factor 0.9
- Programmable power management outlets
- ECO (Efficiency Corrective Optimizer) operation for energy saving
- Boost and Buck AVR for voltage stabilization
- Hot-swappable battery design
- Multiple communications available
- Optional HID Power Device USB Port

Otima II Line Interactive sine wave UPS Selection Guide

| MODEL | | Otima II 800 | Otima II 1.1K (L) | Otima II 1.5K | Otima II 2K (L) | Otima II 2.5K | Otima II 3K (L) | Otima II 5K (L) |
|------------|----------------------------|-----------------|------------------------------------|-------------------|---------------------|--------------------|--|---------------------|
| CAPACIT | Υ | 800VA / 720W | 1100VA / 990W or 1100VA / 1000W | 1500VA / 1350W | 2000VA / 1800W | 2500VA / 2250W | 3000VA / 2700W | 5000VA / 4500W |
| INPUT | | | | | | | | |
| Voltage | | | 110/1 | 15/120/127 VAC o | r 208/220/230/240 |) VAC | | 208/220/230/240 VAC |
| Acceptabl | le Voltage Range | | | 81-152 VAC o | r 162-290 VAC | | | 162-290 VAC |
| Frequenc | y Range | | | 60 | /50 Hz (Auto sens | ing) | | |
| OUTPUT | | | | | | | | |
| Output Vo | oltage | | 110/1 | 15/120/127 VAC c | r 208/220/230/240 |) VAC | | 208/220/230/240 VAC |
| Voltage R | egulation (Batt. Mode) | | | ±1.5 | % (Before battery | alarm) | | |
| Frequenc | y Range (Batt. Mode) | | | 5 | Hz or 60 Hz ± 1 | Hz | | |
| Current C | rest Ratio | | | | 3:1 | | | |
| Harmonic | Distortion | | 2% max @ 100% | linear load, 5% m | nax @ 100% non-l | inear load (before | low battery alarm) | |
| Transfer 1 | Гime | | | Турі | cal 2-6 ms, 10ms | max. | | |
| Waveform | n (Batt. Mode) | | | | Pure Sinewave | | | |
| EFFICIEN | ICY | | | | | | | |
| ECO Mod | le | | | | 97% | | | |
| Buck & Bo | post Mode | | | | 95% | | | |
| Battery M | ode | Up to | 90% | Up to | 91% | | Up to 92% | |
| BATTERY | 1 | | | | | | | |
| | Type & Number | 12 V/7 Ah x 2 | 12 V/9 Ah x 2 | 12 V/7 Ah x 4 | 12 V/9 Ah x 4 | 12 V/7 Ah x 6 | 12 V/9 Ah x 6 | 12 V/10 Ah x 6 |
| Standard | Charging Current (max.) | | | | 1.5 A | | | |
| Model | Charging Voltage | 27.4 VE | OC ± 1% | 54.8 VE | OC ± 1% | | 82.1 VDC ± 1% | |
| | Typical Recharge Time | | | 4 hour | s recover to 90% of | capacity | | |
| Long-run | Charging Current (max.) | | 1A/2A/4A/6A/8A | | 1A/2A/4A/6A/8A | | 1A/2A/4 | A/6A/8A |
| Model | Charging Voltage | N/A | 27.4 VDC ± 1% | N/A | 54.8 VDC ± 1% | N/A | 82.1 VE | C ± 1% |
| PROTEC | TION | | | | | <u>'</u> | | |
| Full Prote | ction | | | Overload, disc | harge, and overch | arge protection | | |
| INDICATO | ORS | | | | | | | |
| LCD Disp | lay | AC Mode, B | attery Mode, Load | Level, Battery Le | vel, Input Voltage, | Output Voltage, C | Overload, Fault and | Low Battery |
| ALARM | | | | | | | | - |
| Battery M | ode | | | Soul | nding every 10 sec | conds | | |
| Low Batte | ery | | | Sou | nding every 2 sec | onds | | |
| Overload | | | | Sc | unding every sec | ond | | |
| Fault | | | | C | ontinuously sound | ing | | |
| PHYSICA | \L | | | | | | | |
| Standard | Dimension, DxWxH(mm) | 410 x 4 | 38 x 88 | 510 x 4 | 38 x 88 | | 630 x 438 x 88 | |
| Model | Net Weight (kgs) | 12.9 | 13.4 | 19.5 | 21.5 | 27.7 | 29.3 | 40 |
| Long-run | Dimension,DxWxH(mm) | | 410 x 438 x 88 | | 410 x 438 x 88 | | 110/115/120/127 VAC: 510 x 438 x 88 208/220/230/240 VAC: 410 x 438 x 88 | 630 x 438 x 88 |
| Model | Net Weight (kgs) | N/A | 9 | N/A | 10.8 | N/A | 110/115/120/127 VAC: 13.9 208/220/230/240 VAC: 11.9 | 22 |
| ENVIRON | IMENT | | | | | | | |
| Humidity | | | | 0-90 % RH | @ 0- 40°C (Non- | condensing) | | |
| | Joise Level Less than 45dB | | | | | | | |
| | MANAGEMENT | | | | | | | |
| | -232/USB | | Supports Wind | dows® 2000/2003 | /XP/Vista/2008, W | /indows® 7/8/10. L | Linux and MAC | |
| Optional S | | | | | from SNMP mana | | | |
| <u> </u> | apacity to 80% of capacity | when the output | | | | - | • • | |
| | pasity to our or our acity | on the output | - Strage to dajuste | LOOV, 10. | | • | | |

^{*}Derate capacity to 80% of capacity when the output voltage is adjusted to 208VAC.



Product specifications are subject to change without further notice.

Otima II



- Pure sine wave
- Output power factor 0.9
- Programmable power management outlets
- ECO (Efficiency Corrective Optimizer) operation for energy saving
- Very high efficiency in battery mode
- Boost and Buck AVR for voltage stabilization
- Multiple communications available
- 3-stage smart battery charging control
- Optional HID Power Device USB Port

Otima II Line Interactive sine wave UPS Selection Guide

| MODEL | | Otima II T 800 | Otima II T 1.1K (L) | Otima II T 1.5K | Otima II T 2K (L) | Otima II T 2.5K | Otima II T 3K (L) | Otima II T 5K (L) | |
|-----------------------|--------------------------------------|----------------|-------------------------------------|--------------------|-------------------------------------|---|--------------------|-------------------------|--|
| CAPACIT | Υ | 800VA / 720W | 1100VA / 990W | 1500VA / 1350W | 2000VA / 1800W | 2500VA / 2250W | 3000VA / 2700W | 5000VA / 4500W | |
| INPUT | | | | | | | | | |
| Voltage | | | 110/1 | 15/120/127 VAC o | or 208/220/230/240 | VAC | | 208/220/230/240VAC | |
| Acceptab' | le Voltage Range | | | 81-152 VAC o | r 162-290 VAC | | | 162-290 VAC | |
| Frequenc | y Range | | | 60. | /50 Hz (Auto sensi | ng) | | | |
| OUTPUT | | | | | | | | | |
| Output Vo | oltage | | 110/1 | 15/120/127 VAC o | or 208/220/230/240 | VAC | | 208/220/230/240VAC | |
| Voltage R | Regulation (Batt. Mode) | | | ±1.5 ° | % (Before battery a | alarm) | | | |
| Frequenc | y Range (Batt. Mode) | | | 50 | Hz or 60 Hz ± 1 H | Ηz | | | |
| Current C | Crest Ratio | | | | 3:1 | | | | |
| Harmonic | Distortion | | 2% max @ 100% | linear load, 5% m | ax @ 100% non-lii | near load (before | low battery alarm) | | |
| Transfer 1 | Time | | | Турі | cal 2-6 ms, 10ms r | max. | | | |
| Waveform | n (Batt. Mode) | | | | Pure Sinewave | | | | |
| EFFICIEN | NCY | | | | | | | | |
| ECO Mod | de | | | | 97% | | | | |
| Buck & Bo | oost Mode | | | | 95% | | | | |
| Battery M | lode | ≧ 8 | 8%, up to 90% @ | nominal battery vo | ltage | ≥ 89%, up to 91% @ nominal battery voltage for 110/115/120/127 VAC ≥ 91%, up to 92% @ nominal battery voltage for 208/220/230/240 VAC | | | |
| BATTERY | Υ | | | | | | | | |
| | Type & Number | 12 V/7 Ah x 2 | 12 V/9 Ah x 2 | 12 V/7 Ah x 4 | 12 V/9 Ah x 4 | 12 V/7 Ah x 6 | 12 V/9 Ah x 6 | 12 V/10 Ah x 6 | |
| Standard | Charging Current (max.) | | | | 1.5 A | | | | |
| Model | Charging Voltage | 27.4 VE | OC ± 1% | 54.8 VE | C ± 1% | | 82.1 VDC ± 1% | | |
| | Typical Recharge Time | | | 4 hours | s recover to 90% c | apacity | | | |
| Long-run | Charging Current (max.) | N/A | 1A/2A/4A/6A/8A (setting via LCD) | N/A | 1A/2A/4A/6A/8A (setting via LCD) | N/A | 1A/2A/4A/6A/8A | 6A/8A (setting via LCD) | |
| Model | Charging Voltage | | 27.4 VDC ± 1% | | 54.8 VDC ± 1% | | 82.1 VE | VDC ± 1% | |
| PROTEC | | <u> </u> | | | | | | | |
| Full Prote | | | | Overload, disc | harge, and overcha | arge protection | | | |
| INDICATO | | | | | | | | | |
| LCD Disp | olay | AC Mode, B | attery Mode, Load | Level, Battery Le | vel, Input Voltage, | Output Voltage, O | verload, Fault and | Low Battery | |
| ALARM | | | | | " 10 | | | | |
| Battery M | | | | | nding every 10 sec | | | | |
| Low Batte | • | | | | nding every 2 seco | | | | |
| Overload | | | | | unding every seco | | | | |
| Fault PHYSICA | \1 | <u> </u> | | | ontinuously soundi | ng | | | |
| | | 207 v 1 | 45 × 220 | 455 v 1 | 45 x 220 | | 404 × 400 × 240 | | |
| Standard Model | Dimension,DxWxH(mm) | 11.7 | 45 x 220 12.1 | 17.2 | 19.7 | 27.7 | 421 x 190 x 318 | 34.5 | |
| | Net Weight (kgs) Dimension,DxWxH(mm) | 11.7 | 397 x 145 x 220 | 17.2 | 455 x 145 x 220 | 21.1 | 421 x 190 x 318 | 421 x 190 x 318 | |
| Model | | N/A | 7.6 | N/A | 10.2 | N/A | 14.5 | 18 | |
| ENVIRON | Net Weight (kgs) | | 7.0 | | 10.2 | | 14.5 | 10 | |
| | AIMIEIN I | | | 0.00 % PH | @ 0_40°C (Non o | endonsing) | | | |
| Humidity Noise Lev | vol | | | 0-90 % RH | @ 0- 40°C (Non-c Less than 45dB | ondensing) | | | |
| | | | | | LCSS (IIdii 400B | | | | |
| MANAGE Smart DS | S-232/USB | | Supports Mins | towe® 2000/2002 | /XP/Vista/2008, Wi | indows® 7/9/10 | inux and MAC | | |
| Optional S | | | | | from SNMP manage | | | | |
| Optional 3 | OINIVIE | | PC | wei management | HOTH SINIVIP HIANA | ger and web brow | 3CI | | |

Compact (1U)



- True double-conversion
- Output power factor 0.8
- 1U compact size perfectly fits for data processing and transmission such as servers, networking and IP telephone services
- Input power factor correction
- Converter mode available via software setting
- ECO mode for energy saving
- Built-in serial communication port/Dry contact
- Emergency power off (EPO) function

Compact 1U Online UPS Selection Guide

| MODEL | | Compact 1U 1K | Compact 1U 1KL | | | | |
|-------------------------------------|-------------------------------------|---|---|--|--|--|--|
| CAPACITY | , | 1000 VA / 800 W | 1000 VA / 800 W | | | | |
| INPUT | | | | | | | |
| Voltage | | 110/120 VAC or 220/230/240 VAC | 220/230/240 VAC | | | | |
| Acceptabl | e Voltage Range | 55-150 VAC or 110-300 VAC @ 50% load 80-150 VAC or 160-300 VAC @ 100% load | 110-300 VAC @ 50% load 160-300 VAC @ 100% load | | | | |
| Frequency | y Range | 40-7 | 0 Hz | | | | |
| Power Fa | ctor | ≧ 0.99 @ Nomina | l voltage (full load) | | | | |
| OUTPUT | | | | | | | |
| Output Vo | ltage | 110/120 VAC or 220/230/240 VAC | 220/230/240 VAC | | | | |
| Voltage R | egulation | ±1 | 1% | | | | |
| Frequency | Range (Synchronized Range) | 57 ~ 63 Hz or 47 ~ 53 Hz | | | | | |
| Frequency | y Range (Batt. Mode) | 60 Hz or 50 Hz ± 0.3 Hz | | | | | |
| Current C | rest Ratio | 5:1 (110/120 VAC) 3:1 (220/230/240 VAC) | 3:1 | | | | |
| Harmonic | Distortion | | Linear Load) on-linear Load) | | | | |
| Transfer | AC Mode to Battery Mode | | ns | | | | |
| Time | Inverter to Bypass | 4 ms (1 | Typical) | | | | |
| Waveform (Batt. Mode) Pure Sinewave | | | | | | | |
| EFFICIEN | ICY | | | | | | |
| AC Mode 86% | | | | | | | |
| ECO Mod | e | 92 | 92% | | | | |
| Battery Mo | ode | 83 | % | | | | |
| BATTERY | 1 | | | | | | |
| Battery Ty | ре | Lithium-iron battery or Sealed Lead-acid battery | Lithium-iron battery or Sealed Lead-acid battery | | | | |
| Battery Vo | oltage | 24 VDC | 48 VDC | | | | |
| Battery Sp | pec & Numbers | 6 V / 9 Ah x 4 | December of subsections of the state of the | | | | |
| Typical Re | echarge Time | 9 hours recover to 90% capacity | Depending on external battery capacity | | | | |
| Charging | Current | 1A | 6A | | | | |
| INDICATO | DRS | | | | | | |
| LED | | AC mode, Battery mode | de, and fault indicators | | | | |
| ALARM | | | | | | | |
| Battery Mo | ode | Sounding even | ery 4 seconds | | | | |
| Low Batte | ry | Sounding e | very second | | | | |
| Overload | | Sounding twice | e every second | | | | |
| Fault | | Continousl | y sounding | | | | |
| PHYSICA | L | | | | | | |
| Dimension | , D x W x H (mm) | 477 x 438 x 44 | 300 x 438 x 44 | | | | |
| Net Weigh | nt (kgs) | 12.6 | 6 | | | | |
| ENVIRON | MENT | | | | | | |
| Humidity | | 20-90 % RH @ 0- 50°C (non-condensing) | 20-90 % RH @ 0-55°C (non-condensing) | | | | |
| Noise Lev | el | Less than 50c | dB @ 1 Meter | | | | |
| MANAGE | MENT | | | | | | |
| USB or R | S-232 | Supports Windows® 2000/2003/XP/Vista | /2008, Windows® 7/8/10, Linux and MAC | | | | |
| Dry Conta | ct (Option) | Signal for AC Power Normal, Battery OK and Fault Alarm | | | | | |
| Product sp | pecifications are subject to change | e without further notice. | . • • • | | | | |



Winner Pro



- True double-conversion
- Output power factor 0.8
- Wide input voltage (110 V 300 V)
- Converter mode available
- ECO mode for energy saving (Only available for 1-3KVA)
- Generator compatible
- Adjustable battery number only available for 6K and up models
- Smart SNMP works well with either USB or RS-232 together
- Emergency power off function (EPO) only available for 6K/10K models
- Adjustable charging current via LCD or software (1A~6A) only available for 6K/10K models
- Optional 1KL-12V, 12A charger available. (Please check sales directly) • Optional output factor 0.9 (Please check sales directly)

Winner Pro Online UPS Selection Guide

| | | | | | | | | | | | | 1015 (1) |
|----------------------|--------------------------------|---------------------------|--|--------------|-------------------------------|--------------|--------------------------|--------------------|--------------------|---|----------------------|-----------------------|
| MODEL | | Winner P | ro 1K (L) | Win | ner Pro 2 | ((L) | Winner P | | Winner P | ro 6K (L) | Winner Pi | o 10K (L) |
| PHASE | | | Single phase with ground VA / 800 W 2000 VA / 1600 W 3000 VA / 2400 W 6000VA / 4800V | | | | | | | | | |
| CAPACITY | / * | 1000 VA | 1/ 800 W | 200 | 0 VA / 160 | 0 W | 3000 VA | / 2400 W | 6000VA | / 4800W | 10000 VA | / 8000 W |
| INPUT | | | | | | | | | | | | |
| Nominal \ | /oltage | | 100/110/115 | 5/120/127V | AC or 200 | /208/220/2 | 230/240VAC | | | 208/220/2 | 30/240VAC | |
| Input Volta | age Range | | | | | | ad at 50%) d at 100%) | | | 110-300 VAC (Based on load at 50%) 176-300 VAC (Based on load at 100%) | | |
| Frequency | y Range | | 40 Hz ~ 70 Hz 46~54 Hz or 56~64 Hz | | | | | | | | | |
| Power Fa | ctor | | ≥ 0.99 @ Nominall Voltage (100% load) | | | | | | | | | |
| OUTPUT | | | | | | | | | | | | |
| Output Vo | ltage | | 100/110/115 | 5/120/127V | AC or 200 | /208/220/2 | 230/240VAC | | | 208/220/2 | 30/240VAC | |
| Voltage R | egulation | | | | | | | ± 1 % | | | | |
| | Range (Synchronized Range) | | | 47~ 53 | Hz or 57 ~ | - 63 Hz | | | | 46~54 Hz (| or 56~64 Hz | |
| | y Range (Batt. Mode) | | 5 | 0 Hz ± 0.2 | 5 Hz or 60 | Hz ± 0.3 F | lz | | | 50 Hz or 60 |)Hz ± 0.1 Hz | |
| Current C | , , , | | | | | | | 3:1 | | | - | |
| | | | | ≤ 3 % | THD (Line | ar Load) | | 0.1 | | ≤ 3 % THD | (Linear Load) | |
| Harmonic | AC Mode to Battery Mode | | | | ID (Non-lin | | | Zero | | | lon-linear Load) | |
| Transfer Time | · · | | | | | -1) | | Zeio | I | | | |
| | Inverter to Bypass | | | - 4 | ms (Typica | ai) | | 0: | l . | | ero | |
| | (Batt. Mode) | | | | | | Pure | Sinewave | | | | |
| EFFICIEN | ICY | | | | | | | | | | 1 | |
| AC Mode | | 88 | | | 89% | | 90 | | 92% 93% 90% 91% | | | |
| Battery Mode 83% | | 3% | | 87% | | 88 | 3% | 90 | 0% | 91 | % | |
| BATTERY | <u> </u> | | | | | | | | | | | |
| | Battery Type | 12 V | / 9 Ah | | 12 V / 9 Ał | ı | 12 V | / 9 Ah | | 12 V | / 9 Ah | |
| | Numbers | 2 | 2 | | 4 | | (| 3 | 16 | 20 | 16 | 20 |
| Standard Model | Typical Recharge Time | | 4 | 4 hours rec | hours recover to 90% capacity | | | | 9 | hours recover | to 90% capacity | / |
| Wiodei | Charging Current (max.) | 1 A | | | | | | | 1 A | / 2 A | | |
| | Charging Voltage | 27.4VDC ± 1% 54.7 VDC ±1% | | | | 82.1 VI | OC ±1% | 218.4 VDC±1% | 273VDC ±1% | 218.4 VDC±1% | 273VDC ±1% | |
| | Battery Type | | | | | Depend | ing on the ca | pacity of ex | ternal batteries | | | |
| Long-run | Numbers | 2 | 3 | 4 | 6 | 8 | 6 | 8 | | 16 ~ 20 (| Adjustable) | |
| Model ** | Charging Current (max.) | | | 1A/2A/4 | A/6A (Adjı | | | only available for | 16pcs batteries) | | | |
| | Charging Voltage | 27.4VDC±1% | 41.0VDC ± 1% | 54.7 VDC ±1% | 82.1 VDC ±1% | 109.4VDC ±1% | 82.1 VDC ±1% | 109.4VDC ±1% | 273 \ | /DC ±1% (Base | d on 20pcs batt | eries) |
| INDICATO | ORS | | | | | | | | | | | |
| LCD | | | | Load I | evel. Batte | rv level. A | C mode, Batt | erv mode. E | Bypass mode, ar | nd Fault indicate | ors | |
| ALARM | | | | | | | | | | | | |
| Battery M | ode | | | | | | Sounding | every 4 sec | onds | | | |
| Low Batte | | | | | | | | every seco | | | | |
| Overload | , | | | | | | Sounding tv | | | | | |
| Fault | | | | | | | | ously soundi | | | | |
| PHYSICA | ı | | | | | | 33 | , | | | | |
| | Dimension, D x W x H (mm) | 282 x 14 | 15 v 220 | 30. | 7 x 145 x 2 | 220 | 421 x 19 | 00 v 310 | 369 x 190 x 688 | | 442 x 190 x 688 | |
| Standard Model | Net Weight (kgs) | 202 X 12 | | 39 | 17 | -20 | 421 X 18 | | 61 | 74 | 66 | 76 |
| | Dimension, D x W x H (mm) | - | .8 45 x 220 | | | | | .0 | | 0 x 318 | 442 x 19 | |
| Long-run Model ** | . , , | 282 X 12 | | | 6.8 | 145) | 7. | 1 | | 2 x 318 | 442 X 18 | |
| | Net Weight (kgs) | 4. | . 1 | l | 0.0 | | | 4 | 1 | | 1 | U |
| ENVIRON | IMENI | | | | | | | | 0.050/.51 | 0.500 | 0.050/.511 | @ 0.40°O |
| Humidity | | | 20-90 | % RH @ | 0- 40°C (N | lon-conde | nsing) | | | l @ 0-50°C ndensing) | 0-95% RH (non-cor | @ 0-40°C ndensing) |
| Noise Lev | | | | Less tha | n 50dB @ | 1 Meter | | | Less than 550 | dB @ 1 Meter | Less than 580 | dB @ 1 Meter |
| MANAGE | | | | | | | | | | | | |
| Smart RS | -232 / USB | | | Supp | orts Wind | ows® 2000 |)/2003/XP/Vi | sta/2008, W | indows® 7/8/10, | Linux and MAG | | |
| Optional S | SNMP | | | | Pow | er manag | ement from S | NMP mana | ger and web bro | owser | | |
| *1-3KVA: [| Derate to 80% of capacity in I | requency co | nverter mode | and to 809 | % when the | output vol | tage is adjust | ed to 100/20 | 0/208VAC | | | |

¹⁻³KVA: Derate to 80% of capacity in Frequency converter mode and to 80% when the output voltage is adjusted to 100/200/208VAC.

⁶⁻¹⁰KVA: Derate to 60% of capacity in Frequency converter mode and to 90% when the output voltage is adjusted to 208VAC.

**Long-run model is only available for 200/208/220/230/240VAC systems (200VAC system only available for 1-3KVA).

Product specifications are subject to change without further notice.

Winner Pro Rack



- True double-conversion
- Input power factor correction
- Output power factor 0.8
- Wide input voltage range (110-300 VAC)
- Converter mode available
- ECO mode for energy saving only available for 1-3KVA models
- Generator compatible
- Adjustable charging current via LCD or software (1A~6A) only available for 6K/10K models
- Emergency power off function (EPO) only available for 6K/10K models
 Optional output factor 0.9 (Please check sales directly)
 Rack-Tower 2-in-1 for 6Kva and below models

- Hot-swappable battery design for 6Kva and below models

Winner Pro Rack Online UPS Selection Guide

| MODEL | | Winner Pro | 1KR (L) | Win | ner Pro 2KR (L) | .) | Winner Pr | o 3KR (L) | Winner Pr | ro 6KR (L) | Winner Pro | o 10KR (L) |
|-------------------|-------------------------------------|--|------------|------------------|----------------------------------|----------------|-------------------|------------------------------|---|--|---------------------------------------|---|
| PHASE | | | | | | Sing | gle phase with | ground | | | | |
| CAPACIT | Υ | 1000 VA / | 800 W | 200 | 00 VA / 1600 W | | 3000 VA | 2400 W | 6000 VA | / 4800 W | 10000 VA | / 8000 W |
| INPUT | | 100/110/15/120/127VAC or 200/208/220/230/240VAC | | | | | | | | | | |
| Nominal V | /oltage | 100/110/115/120/127VAC or 200/208/220/230/240VAC | | | | | | | 208/220/2 | 30/240VAC | | |
| Input Volta | age Range | 55-145 VAC or 110-300 VAC at 50% load | | | | | | 110-300 VAC ± 3% at 50% Load | | | | |
| | · | 85-140 VAC or 160-280 VAC at 100% load 176-300 VAC ± 3% at 100% Load | | | | | | | | | | |
| Frequency | | 40Hz ~ 70 Hz 46Hz ~ 54 Hz or 56Hz ~ 64 Hz | | | | | | | | Hz | | |
| Power Fac | ctor | ≧ 0.99 @ Nominal Voltage (100% load) | | | | | | | | | | |
| OUTPUT | | | | | | | | | | | | |
| Output Vo | | | 100/110/1 | 15/120/127 | VAC or 200/208 | 3/220/23 | 30/240VAC | | | | 30/240VAC | |
| Voltage Re | egulation | | | | ± 1% | | | | | ± ° | 1% | |
| Frequency | y Range (Synchronized Range) | | | 47~ 5 | 3 Hz or 57 ~ 63 | Hz | | | 46 | Hz ~ 54 Hz c | or 56Hz ~ 64 | Hz |
| Frequency | y Range (Batt. Mode) | | | 50 Hz ± 0. | 25 Hz or 60Hz ± | ± 0.3 Hz | <u> </u> | | 50 I | Hz ± 0.1 Hz c | or 60 Hz ± 0.1 | i Hz |
| Current Ci | rest Ratio | | | | | | 3:1 | | | | | |
| Harmonic | Distortion | | | ≦ 3 % ≦ 6 % T | THD (Linear Lo HD (Non-linear | oad), Load) | | | ≦ | ≦ 3 % THD (5 % THD (N | Linear Load) on-linear Loa | ı, ad) |
| Transfer | AC Mode to Battery Mode | | | | Zero | | | | | 0 | ms | |
| Time | Inverter to Bypass | | | | 4 ms (Typical) | | | | | 0 | ms | |
| Waveform | (Batt. Mode) | | | | | | Pure Sinewa | ve | | | | |
| EFFICIEN | ICY | | | | | | | | | | | |
| AC Mode | | 889 | % | | 89% | | 90 | % | 92 | 2% | 93 | 3% |
| Battery Mo | ode | 839 | % | | 87% | | 88 | % | 90 |)% | 91 | 1% |
| BATTERY | , | | | | | | | | | | | |
| | Battery Type | 12 V / 9 | 9 AH | | 12 V / 9 AH | | 12 V / | 9 AH | 12 V / 9 AH | | | |
| | Numbers | 2 | | | 4 | | 6 | | 16 | 20 | 16 | 20 |
| Standard | Typical Recharge Time | | | 4 hours re | 4 hours recover to 90% capacity | | | | 9 hours recover | | | |
| Model | Charging Current | | | 111001010 | 1.0 A | араону | | | | | djustable) | - City |
| | Charging Voltage | 27.4VDC | C ± 1% | 5 | 64.7 VDC ±1% | | 82.1 VE | OC ±1% | 218.4VDC ± 1% | | | 273 VDC ± |
| | Potton, Type | | Danas | dina on the | a conscitutof out | tornal h | ottorioo | | Depending on | | | |
| | Battery Type Numbers | 2 | 3 | | e capacity of ext | | atteries 6 | 8 | <u> </u> | | g on applications ocs (Adjustable) | |
| Long-run | Numbers | 2 | <u> </u> | 4 | 6 | 8 | 6 | 0 | | | (Adjustable) | |
| Model | Charging Current (max.) | 1.0A/2.0A/4 27.4VDC ± 41.0VDC ± 54.7 VDC 82.1 V | | | A/2.0A/4.0A/6.0 | | 82.1 VDC | 109.4VDC | 6A is o | nly available | for 16pcs ba | itteries) |
| | Charging Voltage | 1% | 1% | ±1% | | ±1% | ±1% | ±1% | 218.4 VD | C ± 1% (Bas | ed on 16pcs | batteries) |
| INDICATO | | | | | | | | | | | | |
| LCD Pane | el | | UPS : | status, Loa | d level, Battery I | level, In | put/Output vo | Itage, Discha | irge timer, and | d Fault condi | tions | |
| ALARM | | | | | | | | | | | | |
| Battery Mo | ode | | | | | Sour | nding every 4 | seconds | | | | |
| Low Batte | ry | | | | | So | unding every | second | | | | |
| Overload | | | | | | Sound | ding twice eve | ry second | | | | |
| Fault | | | | | | | ntinuously sou | • | | | | |
| PHYSICA | L | | | | | | | - 3 | | | | |
| Standard Model | Dimension, D x W x H (mm) | 310 x 438 : | x 88 [2U] | 410 |) x 438 x 88 [2U] |] | 630 x 438 | x 88 [2U] | UPS Unit: 530x438x88 [2U] Battery Pack: 668x438x88 [2U]] | UPS Unit: 530x438x88 [2U] Battery Pack: 580x438x133 [3U]] | 580x438 Battery | Unit: x133[3U] y Pack: x133 [3U] |
| | Net Weight (kgs) | 12 | ! | | 19 | | 29 | .3 | UPS Unit: 15 Battery Pack: 48 | UPS Unit: 15 Battery Pack: 61 | UPS Unit: 18 Battery Pack: 51 | UPS Unit: 18 Battery Pack: 61 |
| Long-run | Dimension,D x W x H (mm) | 310 x 438 | x 88 [2U] | | 410 x | 438 x | 38 [2U] | | | 3 x 88 [2U] | 580 x 438 | x 133[3U] |
| Model* | Net Weight (kgs) | 9 | | | 12 | | 14 | .2 | | 5 | 1 | 8 |
| ENVIRON | | | | | | | | | | | | |
| Humidity | | | 20- | 90 % RH @ | 0 0- 40°C (non-c | condens | sing) | | 0-95 % | RH @ 0- 40 | °C (non-cond | lensing) |
| Noise Lev | ral | | 20- | | nan 50dB @ 1 M | | -····9 <i>1</i> | | | | Less than 58 | |
| MANAGE | | | | LCSS III | 1011 JUGE (W 1 IVI | icici | | | _ Less triair 55 | an (6) I MICIGI | E000 (Hall 00) | and the livicite |
| | -232 / USB | | | mmort- 16" | indaws® 0000 | 20022 | /D // /int - /000 | 0 \A/im -l - · | ® 7/0/40 1: | N. D. C. C. B. A. A. | <u> </u> | |
| | | | Su | ipports Wi | indows® 2000/ | | | | | iux and MA | .C | |
| Optional S | | | | | Power manag | ement | from SNMP m | anager and v | web browser | | | |
| *Long-run n | nodel is only available for 200/208 | /220/230/240VA | C systems. | | | | | | | • | | |



^{**}Derate to 80% of capacity in Frequency converter mode and to 80% when the output voltage is adjusted to 100/200/208VAC.

Galleon II 1KVA/1.5KVA/2KVA/3KVA



- True double-conversion online UPS
- Input power factor correction 0.99
- Output power factor 0.9
- 50Hz/60Hz frequency converter mode
- Programmable power management outlets
- Emergency power off function (EPO)
- ECO mode operation for energy saving
- Very high surge immunity up to 7KV, 13KA, 1300J
- Generator compatible
- High overload capability and enhanced short circuit protection
- SNMP/USB/RS-232 multiple communications
- 3-stage smart charging design
- Maximum 8A extended parallel control available for long run model
- Optional HID Power Device USB Port
- Laser printer and ultrasound system load acceptable

Galleon II Online UPS Selection Guide

| MODEL | | Galleon II 1K (L) | Galleon II 1.5K (L) | Galleon II 2K (L) | Galleon | II 3K (L) | | | | |
|-------------|----------------------------------|--|--|--|----------------|--------------------------------|--|--|--|--|
| PHASE | | | Single phase | | | | | | | |
| CAPACITY | , | 1000 VA / 900 W | 1500 VA / 1350 W | 2000 VA / 1800 W | 3000 VA | / 2700 W | | | | |
| INPUT | | | | | | | | | | |
| Nominal V | /oltage | | 100/110/115/120/127 VAC o | r 200/208/220/230/240 VAC | | | | | | |
| | - | | 55 - 150 VAC ± 5 % or 110 - | | | | | | | |
| Voltage R | ange | 80 - 150 VAC ± 5 % or 160 - 300 VAC ± 5 % at 100% load | | | | | | | | |
| Frequency | / Range | 40 Hz ~ 70 Hz | | | | | | | | |
| Power Fac | ctor | ≧ 0.99 @ Nominal Voltage (100% Load) | | | | | | | | |
| THDi | | | | AC or 205-245VAC | | | | | | |
| OUTPUT | | | HDU < 1.6% @ input and full linear lo | pad condition with battery fully charg | gea | | | | | |
| Output Vo | Itaga | | 100/110/115/120/127 VAC or | 200/208/220/220/240 VAC | | | | | | |
| | e Regulation (Batt. Mode) | | 100/110/115/120/127 VAC or ± 1 | | | | | | | |
| | | | | | | | | | | |
| | Range (Synchronized Range) | | 47~53 Hz o | | | | | | | |
| _ | / Range (Batt. Mode) | | 50 Hz ± 0.1 Hz o | | | | | | | |
| Current C | | | 3: | | | | | | | |
| Harmonic | | | ≦ 2 % THD (Linear Load) ; ≦ | | | | | | | |
| Transfer | AC Mode to Batt. Mode | | Ze | | | | | | | |
| Time | Inverter to Bypass | | 4 ms (1 | ····· | | | | | | |
| | (Batt. Mode) | | Pure Si | newave | | | | | | |
| EFFICIEN | CY | | | | | | | | | |
| AC Mode | | 90 | 0% | 91 | % | | | | | |
| ECO Mod | | | 97 | · · | | | | | | |
| Battery Mo | | 89% | 89% | 89% | 90 | 1% | | | | |
| BATTERY | | | | | | | | | | |
| | Battery Type | 12 V / 7 Ah | 12 V / 9 Ah | 12 V / 7 Ah | 12 V / 9 Ah | 12 V / 7 Ah | | | | |
| Standard | Numbers | 3 | 3 | 6 | 6 | 8 | | | | |
| Model | Typical Recharge Time | | 4 hours recover | to 90% capacity | | | | | | |
| | Charging Current (max.) | | 1.5 A | | | 1.2 A | | | | |
| | Charging Voltage | 41.0 VDC ± 1% 82.1 VDC ±1% | | | | | | | | |
| | Battery Type | | Depending on the capa | city of external batteries | | | | | | |
| Long-run | Numbers | 3 | 3 | 6 | 6 | 8 | | | | |
| Model | Charging Current (max.) | | 1A/2A/4A/6A/8A (Selec | etable) | | 1A/2A/4A/6A/7A (Selectable) | | | | |
| | Charging Voltage | 41.0 VI | OC ± 1% | 82.1 VDC ±1% | | 109.6 VDC ± 1% | | | | |
| INDICATO | DRS | | | | | | | | | |
| LCD Displ | ay | UPS status, | Load level, Battery level, Input/Outp | out voltage, Discharge timer, and Fa | ult conditions | | | | | |
| ALARM | | | | | | | | | | |
| Battery Mo | ode | | Sounding eve | ery 5 seconds | | | | | | |
| Low Batte | ry | | Sounding eve | ery 2 seconds | | | | | | |
| Overload | | | Sounding e | very second | | | | | | |
| Fault | | | Continuous | ly sounding | | | | | | |
| PHYSICA | L | | | | | | | | | |
| Standard | Dimension, DxWxH (mm) | 397 x 1 | 45 x 220 | 421 x 19 | 90 x 318 | | | | | |
| Model | Net Weight (kgs) | 12 | 13.8 | 22.5 | 26.6 | 32.2 | | | | |
| Long-run | Dimension, DxWxH (mm) | 397 x 1 | 45 x 220 | 421 x 1 | 90 x 318 | | | | | |
| Model | Net Weight (kgs) | 6.3 | 6.5 | 10.5 | 11.7 | 11.7 | | | | |
| ENVIRON | MENT | | | | | | | | | |
| Humidity | | | 20-95 % RH @ 0- 40 | °C (Non-condensing) | | | | | | |
| Noise Lev | el | | Less than 50 | dB @1Meter | | | | | | |
| MANAGE | MENT | | | | | | | | | |
| Smart RS | -232/USB | Supr | oorts Windows® 2000/2003/XP/Vista | /2008, Windows® 7/8/10, Linux and | MAC | | | | | |
| Optional S | SNMP | | Power management from SNN | MP manager and web browser | | | | | | |
| *Derate car | pacity to 80% of capacity in Fre | equency converter mode and to 80% | when the output voltage is adjusted to | 100VAC, 200VAC or 208VAC. | | | | | | |

^{*}Derate capacity to 80% of capacity in Frequency converter mode and to 80% when the output voltage is adjusted to 100VAC, 200VAC or 208VAC. Product specifications are subject to change without further notice.

Galleon II Rackmount/Rack Tower 1KVA/1.5KVA/2KVA/3KVA



- True double-conversion
- Output power factor 0.9
- ECO and advanced ECO mode for energy saving
- Output voltage regulation < 1%
- Higher output crest radio 3:1
- 50Hz/60Hz frequency converter mode
- Programmable power management outlets
- Emergency power off function (EPO)
- Hot swappable battery design
- Optional HID Power Device USB Port

Galleon II Rackmount/Rack Tower Online UPS Selection Guide

| MODEL | | Galleon II | RWTK (L) | Galleon II RM 1.5K (L) | Galleon II | RW ZK (L) | Galleon II RM 3K (L) | | |
|-------------------|--|---|--|---------------------------------------|-----------------------|---------------------|------------------------------|--|--|
| PHASE | | | | Single phase | with ground | | | | |
| CAPACITY | /* | 1000 VA | / 900 W | 1500 VA / 1350 W | 3000 VA / 2700 W | | | | |
| INPUT | | | | | | | | | |
| Nominal V | /oltage | 100*/110*/115*/120 /127 VAC or 200/208/220/230/240 VAC | | | | | | | |
| Voltage R | 2000 | 55-150 VAC ± 5% or 110-300 VAC ± 5% @ 50% load | | | | | | | |
| voltage K | ange | 80-150 VAC ± 5% or 160-300 VAC ± 5% @ 100% load | | | | | | | |
| Frequency | | 40 Hz ~ 70 Hz | | | | | | | |
| Power Fa | ctor | ≥ 0.99 @ nominal voltage (100% load) | | | | | | | |
| THDi | | | | ≦ 5% @ nomina | al input voltage | | | | |
| OUTPUT | | | | | | | | | |
| Output Vo | ltage | | | 100*/110*/115*/120/127 VAC o | r 200/208/220/230 | 0/240 VAC | | | |
| AC Voltag | e Regulation (Batt. Mode) | | | ± 1° | % | | | | |
| Frequency | Range (Synchronized Range) | | | 57 ~ 63 Hz or | 47 ~ 53 Hz | | | | |
| Frequency | y Range (Batt. Mode) | | | 60Hz ± 0.1Hz or | 50 Hz ± 0.1Hz | | | | |
| Current C | rest Ratio | | | 3:1 (m | nax.) | | | | |
| Harmonic | Distortion | | | ≤ 2 % THD (Linear Load) ; ≤ | 4 % THD (Non-line | ear Load) | | | |
| Transfer | AC Mode to Batt. Mode | | Zero | | | | | | |
| Time | Inverter to Bypass | | | 4 ms (Ty | ypical) | | | | |
| Waveform | (Batt. Mode) | Pure Sinewave | | | | | | | |
| EFFICIEN | · · · · · · · · · · · · · · · · · · · | | | | | | | | |
| AC Mode | | 90 | 90% 90% 91% 91% | | | | | | |
| ECO Mod | ė | 97% | | 97% | | 7% | 97% | | |
| Battery Me | | 88% | 89% | 89% | 88% | 89% | 90% | | |
| BATTERY | | 5070 | 0070 | 5575 | 0070 | 0070 | 00% | | |
| D/11 1 E111 | Battery Type | 12 V / 9 Ah | 12 V / 7 Ah | 12 V / 9 Ah | 12 V / 9 Ah | 12 V / 7 Ah | 12 V / 9 Ah | | |
| | Numbers | 2 | 3 | 3 | 4 | 6 | 6 | | |
| Standard | Typical Recharge Time | | | 4 hours recover to | · | | | | |
| Model | Charging Current (max.) | | | 1.5 / | | | | | |
| | Charging Voltage | 27.4 VDC ± 1% 41.1 VDC ± 1% 41.1 VDC ± 1% 54.8 VDC ±1% 82.1 VDC ±1% 82.1 VDC ±1% | | | | | | | |
| | Battery Type | 27.4 VDC ± 1% 41.1 VDC ± 1% 41.1 VDC ± 1% 54.8 VDC ±1% 82.1 VDC ±1% 82.1 VDC ±1% Depending on the capacity of external batteries | | | | | | | |
| | Numbers | 2 3 3 4 6 6 | | | | | 6 | | |
| Long-run Model | Charging Current (max.) | | | 1A/2A/4A/8A (Selecta | | | | | |
| | Charging Current (max.) Charging Voltage | 27.4 VDC + 49/ | 41.1 VDC + 10/ | · · · · · · · · · · · · · · · · · · · | | | 92.1 VDC +19/ | | |
| INDICATO | | 27.4 VDC ± 1/6 | 27.4 VDC ± 1% 41.1 VDC ± 1% 41.1 VDC ± 1% 54.8 VDC ±1% 82.1 VDC ±1% 82.1 VDC ±1% | | | | | | |
| | | | LIDO -t-t L- | | tueltees Dischar | - time and Fault | | | |
| LCD Displ | lay | | UPS status, Lo | ad level, Battery level, Input/Outpu | it voitage, Discharg | ge timer, and Fault | conditions | | |
| | | 1 | | 0 | - · C d - | | | | |
| Battery M | | | | Sounding ever | - | | | | |
| Low Batte | ry | | | Sounding ever | · | | | | |
| Overload | | | | Sounding even | | | | | |
| Fault | | | | Continuously | y sounding | | | | |
| PHYSICA | | | | | | | | | |
| Standard | Dimension, DxWxH (mm) | 410 x 4 | | 410 x 438 x 88 | 510 x 438 x 88 | 630 x 438 x 88 | 630 x 438 x 88 | | |
| Model | Net Weight (kgs) | 11.6 | 14.2 | 14.5 | 19.5 | 26.9 | 27.4 | | |
| Long-run | Dimension, DxWxH (mm) | | 138 x 88 | 410 x 438 x 88 | | 138 x 88 | 510 x 438 x 88 | | |
| Model | Net Weight (kgs) | 6 | .4 | 6.5 | 6 | .5 | 10.5 | | |
| ENVIRON | IMENT | | | | | | | | |
| Humidity | | | 20-90 % RH @ 0-40°C (non-condensing) | | | | | | |
| Noise Lev | | | | Less than 50di | B @ 1 Meter | <u> </u> | | | |
| MANAGE | | | | | | | | | |
| Smart RS | | | Sı | pports Windows® 2000/2003/XP/ | | | | | |
| Optional S | | | | Power management from SNM | | | | | |
| *Derate car | acity to 95% when the output | voltane is adjusted t | n 115VΔC derate ca | pacity to 90% when the output voltage | ne is adjusted to 110 | VAC and denate can | acity to 80% when the output | | |

^{*}Derate capacity to 95% when the output voltage is adjusted to 115VAC, derate capacity to 90% when the output voltage is adjusted to 110VAC and derate capacity to 80% when the output voltage is adjusted to 100VAC/200VAC/208VAC.

*If standard UPS is equipped with additional charger, the available setting options become 2A, 3A and 4A.

Product specifications are subject to change without further notice.



Galleon One 1KVA/1.5KVA/2KVA/3KVA



- True double-conversion
- Output power factor 1
- Input power factor correction
- 50/60Hz Frequency Converter Mode
- ECO mode energy saving
- Emergency power off (EPO) function
- Provides over voltage cutt-off protection and surge immunity by MOV for full time equipment protection
- High power factor charger up to 8A/12A capacity with very low ripple current when charging battery
- Low input THDi to reduce power system pollution
- Adjustable charging current via LCD panel
- Smart battery charger design to optimize battery performance
- Generator compatible
- Optional HID Power Device USB Port

Galleon One 1KVA/1.5KVA/2KVA/3KVA Online UPS Selection Guide

| MODEL | MODEL Galleon One 1K Galleon One 1.5K Galleon One 2K Galleon One 3K | | | | | | One 3K | | | | |
|---|---|---|--|--|---|---------------------------------|---|-------------------|--|--|--|
| PHASE | | | | | | | | | | | |
| CAPACITY | Y* | 1000 VA / 1 | 1000 VA / 1000 W 1500 VA / 1500W 2000 VA / 2000 W 3000 VA / 3000 V | | | | | | | | |
| INPUT | | | | | | | | | | | |
| Nominal Vo | /oltage | 100/110/115/120 /127 VAC or 200/208/220/230/240 VAC | | | | | | | | | |
| Voltage Ra | | | | 55 - 150 VAC ± 3 % or 110 - 80 - 150 VAC ± 3 % or 160 - | 300 VAC ± 3 % a | at 50% load | | | | | |
| Frequency | / Range | | | | | 1 100 % 10au | | | | | |
| Power Fac | | | 40Hz ~ 70Hz ≥ 0.99 @ nominal voltage (100% load) | | | | | | | | |
| THDi% | | | | | 5% | 30) | | | | | |
| OUTPUT | | | | _ | <u> </u> | | | | | | |
| Output Volt | Itage | | | 100*/110*/115*/120 /127 VAC | or 200*/208*/220/ | 230/240 VAC | | | | | |
| | e Regulation (Batt. Mode) | | | | 1% | 200/2/10 1/10 | | | | | |
| | | | | | | | | | | | |
| | Range (Synchronized Range) | | 47 ~ 53 Hz or 57~63Hz | | | | | | | | |
| Frequency | Range (Batt. Mode) | | | 50 Hz ± 0.1 Hz | or 60Hz ± 0.1 Hz | | | | | | |
| Current Cre | rest Ratio | | | 3 | 3:1 | | | | | | |
| Harmonic [| Distortion | | | ≤ 2% THD (Linear Load), ≤ | 4 % THD (Non-l | inear Load) | | | | | |
| | AC to DC | | | Ze | ero | | | | | | |
| Transfer | Inverter to Bypass | 4 ms (Typical) | | | | | | | | | |
| Time | ECO to Battery Mode | | | 8 ms (Typical), 10 ms (max) | | | | | | | |
| | (Batt. Mode) | | Pure Sinewave | | | | | | | | |
| EFFICIENC | · · · · · · · · · · · · · · · · · · · | <u> </u> | | 1 die 3 | inewave | | | | | | |
| Line Mode | | - | ≥ 89% @ batter | v fully charged | | ≧ 91% @ batte | ery fully charged | | | | |
| ECO Mode | | | | <u> </u> | ery fully charged | | , | | | | |
| Battery Mo | ode | | ≥ 88 | % | | ≥ 9 | 90% | | | | |
| BATTERY | | | | | | | | | | | |
| Battery Typ | ре | 12 V / 9 AH | 12 V / 7 AH | 12 V / 9 AH | 12 V / 9 AH | 12 V / 7 AH | 12 V / 9AH | 12 V / 7AH | | | |
| Numbers | | 2 | 3 | 3 | 4 | 6 | 6 | 8 | | | |
| Typical Re | echarge Time | | 3 h | ours recover to 95% capacity for | internal battery@ | 2A charging curre | ent | | | | |
| Charging C | Current | | | C models: default 2A, max. 8A adj models: default 2A, max. 12A ad | justable | | t: 2A, Max: 8A adj | | | | |
| Charging V | | 27.4VDC ± 1% | 41.1VDC ± 1% | 41.1VDC ± 1% | 54.8VDC ± 1% | 82.2VDC ± 1% | 82.2VDC ± 1% | 109.6 VDC ± 1% | | | |
| INDICATO | | 1 | | | | | | | | | |
| LCD Panel | | <u></u> | Load lev | el, Battery level, AC mode, Batter | ry mode, Bypass r | mode, and Fault in | ndicator | | | | |
| ALARM | | | | | | | | | | | |
| Battery Mo | | | | | ery 5 seconds | | | | | | |
| Low Batter | ry | | | | ery 2 seconds | | | | | | |
| Overload Fault | | | | | very second | | | | | | |
| PHYSICAL | | <u> </u> | | Continuous | sly sounding | | | | | | |
| | | | 207 v 145 | . v 220 | | 421 v 1 | 00 v 219 | | | | |
| | D v M/ v H (mm) | | 397 x 145 x 220 421 x 190 x 318 | | | | | 12.2 | | | |
| | n, D x W x H (mm) | 6.6 | 6.6 | 7 | 0.0 | 9.9 9.9 12.3 12.3 | | | | | |
| Net Weight | nt (without battery) (kgs) | 6.6 | 6.6 | 7 | | | | | | | |
| Net Weight Net Weight | nt (without battery) (kgs) nt (w/ built-in battery) (kgs) | 6.6 | 6.6 13 | 7 14.6 | 9.9 20.3 | 23.2 | 28 | 33 | | | |
| Net Weight Net Weight ENVIRONI | nt (without battery) (kgs) nt (w/ built-in battery) (kgs) | | | 14.6 | 20.3 | 23.2 | | | | | |
| Net Weight Net Weight ENVIRONI Humidity | nt (without battery) (kgs) nt (w/ built-in battery) (kgs) MENT | | | 14.6 20-95 % RH @ 0-40 | 20.3 0°C (non-condens | 23.2 ing) | | | | | |
| Net Weight Net Weight ENVIRONI Humidity Noise Leve | at (without battery) (kgs) at (w/ built-in battery) (kgs) MENT | | | 14.6 | 20.3 0°C (non-condens | 23.2 ing) | | | | | |
| Net Weight Net Weight ENVIRONI Humidity Noise Leve MANAGEN | at (without battery) (kgs) at (w/ built-in battery) (kgs) MENT el MENT | | 13 | 14.6 20-95 % RH @ 0-40 Less than 50dBA @ 1 Me | 20.3 0°C (non-condens tter with Fan spee | 23.2 ing) id control | 28 | | | | |
| Net Weight Net Weight ENVIRONI Humidity Noise Leve MANAGEN Smart RS-2 | nt (without battery) (kgs) nt (w/ built-in battery) (kgs) MENT el MENT -232 or USB | | 13 | 14.6 20-95 % RH @ 0-40 Less than 50dBA @ 1 Me | 20.3 O°C (non-condens eter with Fan spee | 23.2 ing) id control | 28 | | | | |
| Net Weight Net Weight ENVIRONI Humidity Noise Leve MANAGEN Smart RS-2 | at (without battery) (kgs) at (w/ built-in battery) (kgs) MENT el MENT -232 or USB | | 13 | 14.6 20-95 % RH @ 0-40 Less than 50dBA @ 1 Me | 20.3 O°C (non-condens eter with Fan spee | 23.2 ing) id control | 28 | | | | |
| Net Weight Net Weight ENVIRONI Humidity Noise Leve MANAGEN Smart RS-2 | at (without battery) (kgs) at (w/ built-in battery) (kgs) MENT el MENT -232 or USB | | 13 | 14.6 20-95 % RH @ 0-40 Less than 50dBA @ 1 Me | 20.3 O°C (non-condens eter with Fan spee 1/2008, Windows® MP manager and | ing) d control 7/8/10, Linux an | 28 | | | | |

Galleon One RT 1KVA/1.5KVA/2KVA/3KVA



- True double-conversion
- Output power factor 1
- Output voltage regulation < 1%
- 50Hz/60Hz frequency converter mode
- Programmable power management outlets
- Hot swappable battery design
- ECO mode energy saving
- Provides over voltage cutt-off protection and surge immunity by MOV for full time equipment protection
- High power factor charger upto 8A/12A capacity with very low ripple current when charging battery
- Low input THDi to reduce power system pollution
- Adjustable charging current via LCD panel
- Optional HID Power Device USB Port

Galleon One 1KVA/1.5KVA/2KVA/3KVA Rack/Tower Online UPS Selection Guide

| MODEL | | Galleon O | ne RT 1K | Galleon One RT 1.5K | Galleon O | ne RT 2K | Galleon One RT 3K | | | |
|-------------------------------------|--------------------------------|---|---|--------------------------------------|---------------------|----------------------|------------------------|--|--|--|
| PHASE | | | | Single phase | with ground | | | | | |
| CAPACITY | / * | 1000 VA | / 1000 W | 1500 VA / 1500 W | 2000 VA | / 2000 W | 3000 VA / 3000 W | | | |
| INPUT | | | | | | | | | | |
| Nominal V | /oltage | | 100/110/115/120/127 VAC or 200/208/220/230/240 VAC | | | | | | | |
| Voltage Ra | ange | 55-150 VAC ± 5% or 110-300 VAC ± 5% @ 50% load 80-150 VAC ± 5% or 160-300 VAC ± 5% @ 100% load | | | | | | | | |
| Frequency | / Range | | | 40 Hz ~ | 70 Hz | | | | | |
| Power Fac | ctor | | | ≥ 0.99 @ nominal v | oltage (100% load) | | | | | |
| Harmonic | Distortion(THDi) | | | ≤ 5% @ nomina | al input voltage | | | | | |
| OUTPUT | | | | | | | | | | |
| Output Vol | Itage | | | 100*/110*/115*/120/127 VAC or | 200*/208*/220/23 | 0/240 VAC | | | | |
| AC Voltage | e Regulation (Batt. Mode) | | | ± 1' | % | | | | | |
| Frequency I | Range (Synchronized Range) | | | 57 ~ 63 Hz or | 47 ~ 53 Hz | | | | | |
| Frequency | Range (Batt. Mode) | | | 60Hz ± 0.1Hz or | 50 Hz ± 0.1Hz | | | | | |
| Current Cr | rest Ratio | | | 3:1 (m | nax.) | | | | | |
| Harmonic | Distortion | | | ≤ 2 % THD (Linear Load) ; ≤ | 4 % THD (Non-line | ear Load) | | | | |
| Transfer AC Mode to Batt. Mode Zero | | | | | | | | | | |
| Time | Inverter to Bypass | | | 4 ms (T | vpical) | | | | | |
| Waveform | (Batt. Mode) | | | Pure Sin | | | | | | |
| EFFICIEN | , | | | | | | | | | |
| AC Mode | | | ≥ 89% @ full charged battery ≥ 91% @ full charged battery | | | | | | | |
| ECO Mode | Δ | | ≥ 96% @ full charged battery | | | | | | | |
| Battery Mo | | ≥ 88% ≥ 90% | | | | | | | | |
| BATTERY | | | _ 500 | | | | | | | |
| Battery Ty | | 12 V / 9 Ah | 12 V / 9 Ah | | | | | | | |
| Numbers | pe | 2 | 3 | 3 | 4 | 6 | 6 | | | |
| | echarge Time | | | <u>-</u> | · · | - | | | | |
| Charging (| - | 3 hours recover to 95% capacity for internal battery@ 2A charging current 100/110/115/120 /127 VAC models: default 2A, max. 8A adjustable 200/208/220/230/240 VAC models: default 2A, max. 12A adjustable Default: 2A, Max: 8A adjustable | | | | | 2A, Max: 8A adjustable | | | |
| Charging \ | Voltage | 27.4 VDC ± 1% | 41.1 VDC ± 1% | 41.1 VDC ± 1% | 54.8 VDC ±1% | 82.1 VDC ±1% | 82.1 VDC ±1% | | | |
| INDICATO | | 27.111202170 | 1111 120 2 170 | 12011/0 | 01.0 100 2170 | 02.1 100 1170 | 02:1 720 2170 | | | |
| LCD Displa | | UPS status, Load level, Battery level, Input/Output voltage, Discharge timer, and Fault conditions | | | | | | | | |
| ALARM | <u>.</u> | | 0.000000, 200 | au level, Buttery level, input eutp | at voltago, Dioonal | go timor, and r date | 55114145115 | | | |
| Battery Mo | nde | | | Sounding ever | ny 5 seconds | | | | | |
| Low Batter | | | | Sounding ever | • | | | | | |
| Overload | ' ' | | | Sounding ev | - | | | | | |
| Fault | | | | Continuousl | | | | | | |
| PHYSICAL | ı | | | Continuousi | y souriding | | | | | |
| | n, DxWxH(mm) | 410 v 4 | 38 x 88 | 410 x 438 x 88 | 510 x 438 x 88 | 630 x 438 x 88 | 630 x 438 x 88 | | | |
| | nt (without battery) (kgs) | 6.6 | 7.8 | 8.1 | 9.4 | 10.6 | 12.4 | | | |
| | nt (w/built-int battery) (kgs) | 11.6 | 14.1 | 15.5 | 19.5 | 23.3 | 27.5 | | | |
| ENVIRON | | 11.0 | 14.1 | 10.0 | 19.0 | 23.3 | 21.0 | | | |
| | MENI | | | 20.00 % PH @ 0.409 | C (non condensing | -\ | | | | |
| Humidity Noise Leve | ol. | | | 20-90 % RH @ 0- 40° Less than 50d | | 9) | | | | |
| MANAGEI | | | | Less than 500 | D W I WELEI | | | | | |
| | | | | | Vi-t- 100001710110 | Linux and MAC | | | | |
| Smart RS- | | | Sı | pports Windows® 2000/2003/XP/ | | | | | | |
| Optional S | | | | Power management from SNM | manager and we | ed browser | | | | |
| STANDAR | | | | | | | | | | |
| EMC/safet | ty | | | EMC EN62040-2 (| 22 for CE models | | | | | |

*Derate capacity to 80% when the output voltage is adjusted to 100VAC/200VAC/208VAC. Product specifications are subject to change without further notice



Galleon One 6KVA/10KVA



- True double-conversion
- DSP technology guarantees high performance
- Output power factor 1
- High efficiency up to 94%
- 50Hz/60Hz frequency converter mode
- Emergency power off function (EPO)
- Generator compatible
- SNMP/USB/RS-232 communications
- Adjustable battery numbers
- Optional N+X parallel redundancy
- Adjustable charging current via LCD panel
- Supporting Hot Standby function

Galleon One Online UPS Selection Guide

| MODEL | | Galleon One 6K(L) | Galleon One 10K(L) | | | | | |
|-------------------|-------------------------------------|---|---|--|--|--|--|--|
| PHASE | | 1 phase in / | | | | | | |
| CAPACITY | , | 6000 VA / 6000 W | 10000 VA / 10000 W | | | | | |
| INPUT | | | | | | | | |
| Nominal V | /oltage | 208/220/230/240 VAC | | | | | | |
| Voltage R | - | 110~300VAC ± 3 % at 50% load ; 176~300VAC ± 3 % at 100% load | | | | | | |
| Frequency | | 46~54 Hz or 56~64 Hz | | | | | | |
| Phase | , ruange | Single phase with ground | | | | | | |
| Power Fac | ctor | ≥ 0.99 @ | | | | | | |
| THDi | | < 4% @100% Load | | | | | | |
| OUTPUT | | | , | | | | | |
| Output Vo | Itage | 208/220/23 | 0/240 VAC | | | | | |
| | e Regulation (Batt. Mode) | ±1 | | | | | | |
| | y Range (Synchronized Range) | 46~54 Hz oi | | | | | | |
| | y Range (Batt. Mode) | 50 Hz ± 0.1 Hz oi | | | | | | |
| Current Ci | | 3:1 (n | | | | | | |
| Harmonic | | ≤ 1 % THD (Linear Load) ; ≤ | <u> </u> | | | | | |
| | AC Mode to Batt. Mode | Zer | | | | | | |
| Transfer Time | Inverter to Bypass | Zei | | | | | | |
| | (Batt. Mode) | Pure Sir | | | | | | |
| TTUTCIOIIII | AC Mode | 100%~110% 10min ; 110%~ | | | | | | |
| Overload | Battery Mode | 100%~110%: 30sec; 110%~ | | | | | | |
| EFFICIEN | | 100 /0 110 /0. 303eC , 110 /0 | 130 /0. 103ec , > 130 /0 . 13ec | | | | | |
| AC Mode | | 94' | % | | | | | |
| Battery Mo | ode | 91' | | | | | | |
| BATTERY | | | | | | | | |
| | Battery Type | 12 V / 7 Ah | 12 V / 9 Ah | | | | | |
| | Numbers | 16 | 3 | | | | | |
| Standard Model | Typical Recharge Time | 9 hours recover to 90% capacity | | | | | | |
| Wiodei | Charging Current (max.) | 1.0 A | | | | | | |
| | Charging Voltage | 218.4 VDC ± 1% | | | | | | |
| | Battery Type | Depending on | | | | | | |
| Long-run | Numbers | | 16-20** | | | | | |
| Model | Charging Current (max.) | 4.0 | | | | | | |
| INIDIO ATO | Charging Voltage | (13.65VDC x batte | ery number) ± 1% | | | | | |
| INDICATO | | LIDO etetre il endire il Detterni endi le entito ete | the Birth of Francisco | | | | | |
| ALARM | lay | UPS status, Load level, Battery level, Input/Outp | ut voltage, Discharge timer, and Fault conditions | | | | | |
| Battery Mo | nde | Sounding eve | ry 4 seconds | | | | | |
| Low Batte | | Sounding eve | | | | | | |
| Overload | ., | Sounding twice | • | | | | | |
| Fault | | Continuousl | | | | | | |
| PHYSICA | L | | , , | | | | | |
| Standard | Dimension, DxWxH (mm) | 369 x 190 x 688 | 442 x 190 x 688 | | | | | |
| Model | Net Weight (kgs) | 54 | 66 | | | | | |
| Long-run | Dimension, DxWxH (mm) | 369 x 190 x 318 | 442 x 190 x 318 | | | | | |
| Model | Net Weight (kgs) | 13 | 16 | | | | | |
| ENVIRON | | | | | | | | |
| Operating | Humidity | 20-95 % RH @ 0- 40° | C (Non-condensing) | | | | | |
| Noise Lev | el | Less than 55dB @1Meter | Less than 58dB @1Meter | | | | | |
| MANAGE | MENT | | | | | | | |
| Smart RS- | -232/USB | Supports Windows® 2000/2003/XP/Vista/ | 2008, Windows® 7/8/10, Linux and MAC | | | | | |
| Optional S | SNMP | Power management from SNN | IP manager and web browser | | | | | |
| * Derate ca | pacity to 60% of capacity in CVCF m | ode and to 90% when the output voltage is adjusted to 208VAC or paralle | I system is operated. | | | | | |

⁻ uerate capacity to 80% of capacity in CVCF mode and to 90% when the output voltage is adjusted to 208VAC or parallel system is operated.

**When using 16 pieces of batteries, the output power factor will be derated to 0.8. If using 18 or 19 pieces of batteries, the output power factor will be derated to 0.9.

**If the UPS is installed or used in a place where the altitude is above than 1000m, the output power must be derated one percent per 100m.

Product specifications are subject to change without further notice.

Galleon One RT 6KVA/10KVA



- True double-conversion
- DSP technology guarantees high performance
- Output power factor 1
- 50Hz/60Hz frequency converter mode
 Emergency power off function (EPO)
- Generator compatible
- SNMP/USB/RS-232 communications
- Adjustable battery numbers
- Optional N+X parallel redundancy
- Adjustable charging current via LCD panel
- Supporting Hot Standby function

Galleon One 6KVA/10KVA Rack/Tower Online UPS Selection Guide

| MODEL | | Galleon Or | ne 6K(L) RT | Galleon On | e TUK(L) KT | | | |
|---|---------------------------------------|---|--|---|--|--|--|--|
| PHASE | | | 1 phase in / | 1 phase out | | | | |
| CAPACITY | /* | 6000 VA | / 6000 W | 10000 VA | / 10000 W | | | |
| INPUT | | | | | | | | |
| Nominal Vo | oltage | 208/220/230/240 VAC | | | | | | |
| | - | 110~300VAC ± 3 % at 50% load | | | | | | |
| Voltage Ra | inge | 176~300VAC ± 3 % at 100% load | | | | | | |
| Frequency | Range | 46~54 Hz ⊚ 50Hz / 56~64 Hz ⊚ 60Hz | | | | | | |
| Power Fac | tor | | ≧ 0.99 @ full load | | | | | |
| THDi | | < 4% @100% Load, < 6% @50% Load | | | | | | |
| OUTPUT | | | | | | | | |
| Output Volt | tage | 208*/220/2 | 30/240 VAC | 208*/220/2 | 30/240 VAC | | | |
| AC Voltage | Regulation | | ± . | 1% | | | | |
| Frequency | Range (Synchronized Range) | | 46~54 Hz ◎ 50Hz | / 56~64 Hz ◎ 60Hz | | | | |
| | Range (Batt. Mode) | | 50 Hz ± 0.1 Hz o | or 60 Hz ± 0.1 Hz | | | | |
| Current Cre | | | | max.) | | | | |
| Harmonic [| | | | 4% THD (Non-linear Load) | | | | |
| Transfer | AC Mode to Batt. Mode | | | ero | | | | |
| Time | Inverter to Bypass | | Ze | | | | | |
| | (Batt. Mode) | | | newave | | | | |
| | AC Mode | | | ~130%: 1min \ >130% : 1sec | | | | |
| Overload | | Battery Mode 100%-110%: 30sec \>130%: 10sec \>130%: 1sec | | | | | | |
| EFFICIENC | · · · · · · · · · · · · · · · · · · · | | | | | | | |
| AC Mode | σ1 | 0/ | 19/ | 0/ | 10/ | | | |
| | | | | | | | | |
| | | 98.5% 98.5% 92% 92% | | | | | | |
| Battery Mo | de | 92% | | | | | | |
| BATTERY | р т | 10.1/ | (7 | 10.1/ | 10.411 | | | |
| | Battery Type | | / 7 AH | | / 9 AH | | | |
| Standard | Numbers | 16 | 20 | 16 | 20 | | | |
| Model | Typical Recharge Time | | 9 hours recover | to 90% capacity | | | | |
| | Charging Current (max.) | 040.43/20040/ | | | 070.1/00 : 40/ | | | |
| | Charging Voltage | 218.4 VDC ± 1% | 273 VDC ± 1% | 218.4 VDC ± 1% 273 VDC ± 1% | | | | |
| | Battery Type | Depending on applications | | | | | | |
| Long-run Model | Numbers | 16-20** 4.0.A | | | | | | |
| iviouei | Charging Current (max.) | 4.0 A | | | | | | |
| INDICATO | Charging Voltage | (13.65VDC x battery number) ± 1% | | | | | | |
| LCD Panel | | LIPS status I | oad level, Battery level, Input/Outp | ut voltage. Discharge timer, and Er | ault conditions | | | |
| ALARM | | OF 3 status, t | Load level, Battery level, Input/Outp | dt voltage, Discharge tiller, and Fa | adit coriditions | | | |
| Battery Mo | de | | Sounding eve | ery 4 seconds | | | | |
| Low Batter | | | | very second | | | | |
| Overload | , | | Sounding twice | <u> </u> | | | | |
| Fault | | | | ly sounding | | | | |
| PHYSICAL | | | | , | | | | |
| Standard | Dimension, D x W x H (mm) | UPS Unit: 610x438x88 [2U] Battery Pack:715x438x88 [2U] | UPS Unit: 610x438x88 [2U] Battery Pack:600x438x133 [3U] | UPS Unit: 610x438x88 [2U] Battery Pack:715x438x88 [2U] | UPS Unit: 610x438x88 [2U] Battery Pack:600x438x133 [3U] | | | |
| Model | Net Weight (kgs) | UPS Unit: 17 Battery Pack: 48 | UPS Unit: 17 Battery Pack: 57 | UPS Unit: 20 Battery Pack: 53 | UPS Unit: 20 Battery Pack: 63 | | | |
| Long-run | Dimension, D x W x H (mm) | | 3 x 88 [2U] | | 3 x 88 [2U] | | | |
| Model | Net Weight (kgs) | 1 | 7 | 2 | 20 | | | |
| ENVIRON | | | | | | | | |
| Operating I | Humidity | | 20-90 % RH @ 0- 40 | °C (non-condensing) | | | | |
| Noise Level Less than 55dB @ 1 Meter Less than 58dB @ 1 Meter | | | | | dB @ 1 Meter | | | |
| MANAGEN | MENT | | | | | | | |
| Smart RS-2 | 232 / USB | Suppo | orts Windows® 2000/2003/XP/Vista | /2008, Windows® 7/8/10, Linux and | d MAC | | | |
| Optional SI | | | Power management from SNI | | | | | |
| | | | -lt idit-d t- 200\ (A C | | | | | |



Derate capacity to 60% of capacity in CVCF mode and to 90% when the output voltage is adjusted to 208VAC or parallel system is operated.

**When using 16 pieces of batteries, the output power factor will be derated to 0.8. If using 18 or 19 pieces of batteries, the output power factor will be derated to 0.9 If the UPS is installed or used in a place where the altitude is above than 1000m, the output power must be derated one percent per 100m.

Product specifications are subject to change without further notice.

Galleon One 1KVA/1.5KVA/2KVA/3KVA





- True double-conversion
- Output power factor 0.96 ~ 1**
- Input power factor correction
- 50/60Hz Frequency Converter Mode
- ECO mode energy saving
- Emergency power off (EPO) function
- Provides over voltage cut-off protection and surge immunity by MOV for full time equipment protection
- High power factor charger up to 8A/12A capacity with very low ripple current when charging battery
- Low input THDi to reduce power system pollution
- Adjustable charging current via LCD panel
- Smart battery charger design to optimize battery performance
- Generator compatible
- Optional HID Power Device USB Port

Galleon One 1KVA/1.5KVA/2KVA/3KVA Online UPS Selection Guide

| MODEL | | Galleon | One 1K | Galleon One 1.5K | Galleon | One 2K | Galleon One 3K | | |
|-------------------------------------|---------------------------------------|---|--|---|--------------------|--------------------|------------------|--|--|
| PHASE | | | | Single phase w | ith ground | | | | |
| CAPACITY | Y * | 1000 VA | / 1000 W | 1500 VA / 1450 W | 2000 VA | / 1930 W | 3000 VA / 2880 W | | |
| NPUT | | | | | | | | | |
| Nominal Vo | oltage | 100/110/115/120/127 VAC | | | | | | | |
| /oltage Ra | ange | 55-150 VAC ± 3 % at 50% load ; 80-150 VAC ± 3 % at 100% load | | | | | | | |
| requency | Range | 40Hz ~ 70Hz | | | | | | | |
| Power Fac | etor | ≥ 0.99 @ nominal voltage (100% load) | | | | | | | |
| ΓHDi% | | ≦ 5% | | | | | | | |
| DUTPUT | | ' | | | | | | | |
| Output Vol | tage | | | 100*/110*/115*/1 | 20/127 VAC | | | | |
| ower Fac | ctor | | | > 0.96 | ** | | | | |
| C Voltage | e Regulation (Batt. Mode) | | | ± 1% | | | | | |
| requency f | Range (Synchronized Range) | | | 47 ~ 53 Hz or | 57~63Hz | | | | |
| | Range (Batt. Mode) | | | 50 Hz ± 0.1 Hz or 6 | | | | | |
| Current Cr | | | | 3:1 | | | | | |
| Harmonic I | | | | \leq 2% THD (Linear Load), \leq 4 | % THD (Non-line | ar Load) | | | |
| | AC to DC | | | Zero | | , | | | |
| Fransfer | Inverter to Bypass | | | 4 ms (Typ | | | | | |
| Гime | ECO to Battery Mode | | | 8 ms (Typical), 1 | | | | | |
| Waveform (Batt. Mode) Pure Sinewave | | | | | | | | | |
| FFICIEN | | Tule Onlewave | | | | | | | |
| ine Mode | | | ≥ 89% @ battery fully charged ≥ 91% @ battery fully charged | | | | | | |
| ECO Mode | | | _ 0070 @ 00110 | ≥ 96% @ battery | fully charged | _ 0170 @ 241101 | , rany onargou | | |
| Battery Mo | | | ≥ 8 | | rany onangou | ≧ 90 | 10% | | |
| BATTERY | | l | = 0 | 10 70 | | = 00 | | | |
| Battery Typ | ne | 12 V / 9 AH | 12 V / 7 AH | 12 V / 9 AH | 12 V / 9 AH | 12 V / 7 AH | 12 V / 9AH | | |
| Numbers | , , , , , , , , , , , , , , , , , , , | 2 | 3 | 3 | 4 | 6 | 6 | | |
| | charge Time | _ | | ours recover to 95% capacity for inte | | | | | |
| Charging C | | Default 2A, Max. 8A adjustable | | | | | | | |
| Charging V | | 27.4VDC ± 1% | | | | | 82.2VDC ± 1% | | |
| NDICATO | | 21.11002170 | 27.4VDC ± 1% 41.1VDC ± 1% 41.1VDC ± 1% 54.8VDC ± 1% 82.2VDC ± 1% 82.2VDC ± 1 | | | | | | |
| CD Panel | | | I nad lev | el, Battery level, AC mode, Battery n | node Bynass mod | de and Fault indic | eator | | |
| ALARM | | l | 2000 101 | or, Barrot, 10vol, 110 mode, Barrot, 11 | iodo, Bypaco mo | ao, ana raan man | | | |
| Battery Mo | nde | I | | Sounding every | 5 seconds | | | | |
| ow Batter | | | | Sounding every | | | | | |
| Overload | , | | | Sounding every | | | | | |
| ault | | | | Continuously s | | | | | |
| PHYSICAL | | | | Continuously | Journaling | | | | |
| | ı, D x W x H (mm) | I | 397 x 14 | 15 x 220 | | 421 x 190 |) v 318 | | |
| | t (without battery) (kgs) | 6.6 | 6.6 | 7 | 9.9 | 9.9 | 12.3 | | |
| | t (w/ built-in battery) (kgs) | 11.7 | 13 | 14.6 | 20.3 | 23.2 | 28 | | |
| ENVIRONI | | 11.7 | 10 | 1-7.0 | 20.0 | 20.2 | | | |
| Humidity | | | | 20-95 % RH @ 0- 45°C | (non-condensing |) | | | |
| Noise Leve | al | | | | | | | | |
| Altitude | J. | Less than 50dBA @ 1 Meter with Fan speed control 10% de-rating for over 1000m (The altitude should not exceed 3000m) | | | | | | | |
| MANAGE | MENT | | | 770 GC-1GLING TOT GVET TOUGHT (THE AI | atage anound not t | 5,000 5000III) | | | |
| | 232 / USB | | Cunnad | s Windows® 2000/2003/XP/Vista/20 | IOS Windows® 7/ | 8/10 Linux and M | IAC | | |
| Optional S | | - | Support | Power management from SNMP | | | | | |
| STANDAR | | | | i owei management nom SNMP | manager and we | D DIOWSEI | | | |
| | | | | aTIN/us (sample to 18 4770) 5 (| 1 1 EK CI D. 2 | 2K Class A) | | | |
| EMC/Safet | · | loltage is adjusted to | | cTUVus (comply to UL1778), Fcc (| I-I.SK Class B, 2 | -SK Class A) | | | |

^{**}The output power factor is based on the input voltage. This figure is based on 127V input voltage.

Product specifications are subject to change without further notice.

Galleon One RT 1KVA/1.5KVA/2KVA/3KVA





- True double-conversion
- Output power factor 0.96 ~ 1**
- Output voltage regulation < 1%
- 50Hz/60Hz frequency converter mode
- Programmable power management outlets
- Emergency power off function (EPO)
- Hot swappable battery design
- ECO mode energy saving
- Provides over voltage cut-off protection and surge immunity by MOV for full time equipment protection
- High power factor charger upto 8A/12A capacity with very low ripple current when charging battery
- Low input THDi to reduce power system pollution
- Adjustable charging current via LCD panel
- Smart battery charger design to optimize battery performance
- Generator compatible
- Optional HID Power Device USB Port

Galleon One 1KVA/1.5KVA/2KVA/3KVA Rack/Tower Online UPS Selection Guide

| MODEL | Galleon One RT 1K Galleon One RT 1.5K Galleon One RT 2K Galleon | | | Galleon One RT 3K | | |
|---|---|--|--------------------------------------|----------------------|----------------------|------------------|
| PHASE | | Single phase with ground | | | | |
| CAPACITY* | 1000 VA | / 1000 W | 1500 VA / 1450 W | 2000 VA | / 1930 W | 3000 VA / 2880 W |
| INPUT | | | | | | |
| Nominal Voltage | | | 100/110/115/1 | 20 /127 VAC | | |
| Voltage Range | | | 55 - 150 VAC ± 3 80 - 150 VAC ± 3 | | | |
| Frequency Range | | | 40 Hz ~ | | | |
| Power Factor | | | ≥ 0.99 @ nominal v | oltage (100% load) |) | |
| Harmonic Distortion(THDi) | | | ≦ 5% @ nomina | al input voltage | | |
| OUTPUT | | | | | | |
| Output Voltage | | | 100*/110*/115*/ | 120/127 VAC | | |
| Power Factor | | | > 0.9 | 6** | | |
| AC Voltage Regulation (Batt. Mode) | | | ± 1' | % | | |
| Frequency Range (Synchronized Range) | | | 57 ~ 63 Hz or | 47 ~ 53 Hz | | |
| Frequency Range (Batt. Mode) | | | 60Hz ± 0.1Hz or | 50 Hz ± 0.1Hz | | |
| Current Crest Ratio | | | 3:1 (m | nax.) | | |
| Harmonic Distortion | | | ≤ 2 % THD (Linear Load) ; ≤ | 4 % THD (Non-lin | ear Load) | |
| Transfer AC Mode to Batt. Mode | | - | Zer | | | |
| Time Inverter to Bypass | | | 4 ms (T) | ypical) | | |
| Waveform (Batt. Mode) | | | Pure Sin | | | |
| EFFICIENCY | 1 | | | | | |
| AC Mode | | ≥ 89% @ full cha | arged battery | | ≥ 91% @ full cha | arged battery |
| ECO Mode | | | ≥ 96% @ full cl | narged battery | | |
| Battery Mode | | ≥ 88° | | | ≥ 90% | % |
| BATTERY | | | | | | |
| Battery Type | 12 V / 9 Ah | 12 V / 7 Ah | 12 V / 9 Ah | 12 V / 9 Ah | 12 V / 7 Ah | 12 V / 9 Ah |
| Numbers | 2 | 3 | 3 | 4 | 6 | 6 |
| Typical Recharge Time | | 3 hc | urs recover to 95% capacity for in | ternal batterv@ 2A | charging current | |
| Charging Current | | | Default 2A, Max | | | |
| Charging Voltage | 27.4 VDC ± 1% | 41.1 VDC ± 1% | 41.1 VDC ± 1% | 54.8 VDC ±1% | 82.1 VDC ±1% | 82.1 VDC ±1% |
| INDICATORS | 27.4 100 1 170 | 41.1 400 1 170 | 41.1 400 1 170 | 04.0 VBO 1170 | 02:1 400 1170 | 02.1 VDO 1170 |
| LCD Display | I | LIPS status Lo | ad level, Battery level, Input/Outpu | ıt voltage Dischar | ne timer and Fault | conditions |
| ALARM | | 0. 0 otatao, 20 | au lovel, Bullery lovel, input outpe | at voltago, Dioonal, | go timor, and r dait | |
| Battery Mode | 1 | | Sounding ever | v 5 seconds | | |
| Low Battery | | | Sounding ever | | | |
| Overload | | | Sounding ever | - | | |
| Fault | | | | | | |
| PHYSICAL | 1 | Continuously sounding | | | | |
| Dimension, DxWxH(mm) | 410 x 4 | 410 x 438 x 88 | | | | |
| Net Weight (without battery) (kgs) | 6.6 | 7.8 | 8.1 | 9.4 | 10.6 | 12.4 |
| Net Weight (w/built-int battery) (kgs) | 11.6 | 14.1 | 15.5 | 19.5 | 23.3 | 27.5 |
| ENVIRONMENT | | 14.1 | 10.0 | 10.0 | 20.0 | 21.0 |
| Humidity | | | 20-90 % RH @ 0- 40° | C (non-condensing | 1) | |
| Noise Level | 20-90 % RH @ 0- 40°C (non-condensing) Less than 50dB @ 1 Meter | | | | | |
| Altitude | 10% de-rating for over 1000m (The altitude should not exceed 3000m) | | | | | |
| MANAGEMENT | | 10 | | | | |
| Smart RS-232/USB | | Sı | pports Windows® 2000/2003/XP/ | Vista/2008/7/8/10 | Linux and MAC | |
| Optional SNMP | | Power management from SNMP manager and web browser | | | | |
| STANDARD | | | | | | |
| EMC/safety | | | TUVus (comply with UL1778), Fc | c (1-1.5K Class B | 2-3K Class A) | |
| *Derate capacity to 80% when the output | it voltage is adjusted | | | - (| • • • | |



^{*}Derate capacity to 80% when the output voltage is adjusted to 100VAC. **The output power factor is based on the input voltage. This figure is based on 127V input voltage. Product specifications are subject to change without further notice.

Galleon One RT 6KVA/10KVA





- True double-conversion
- DSP technology guarantees high performance
- Output power factor 1
- Active input power factor correction 0.99
- 50Hz/60Hz frequency converter mode
- Emergency power off function (EPO)
- Generator compatible
- SNMP/USB/RS-232 communications
- Adjustable battery numbers
- Optional N+X parallel redundancy
- Adjustable charging current via LCD panel
- Supporting Hot Standby function

Galleon One 6KVA/10KVA Rack/Tower Online UPS Selection Guide

| MODEL | | Galleon Or | ie 6K(L) RT | Galleon O | ne 10K(L) RT | |
|------------|----------------------------|--|--|---|---|--|
| PHASE | | | | 1 phase out | | |
| CAPACIT | Y* | 6000 VA | / 6000 W | · | A / 10000 W | |
| INPUT | | | | | | |
| Nominal V | /oltage | | 208/220/2 | 30/240 VAC | | |
| Voltage R | | | | 176~300VAC @(80~100%) Load | | |
| Frequency | | | | / 56~64 Hz ⊚ 60Hz | | |
| Power Fac | | | | 7 00 04 112 @ 00112 full load | | |
| THDi | CIOI | | | | | |
| OUTPUT | | | < 4% @ 100% Load | I, < 6% @50% Load | | |
| | tt | 404/440/4 | 15/400//40 | 404/440/ | 445/400)/400 | |
| Output Vo | | 104/110/1 | 15/120VAC | | 115/120VAC | |
| | e Regulation | | | 1% | | |
| | Range (Synchronized Range) | | | / 56~64 Hz ◎ 60Hz | | |
| | y Range (Batt. Mode) | | | or 60 Hz ± 0.1 Hz | | |
| Current C | rest Ratio | | 3:1 (| max.) | | |
| Harmonic | Distortion | | ≦ 2% THD (Linear Load), : | ≦ 6% THD (Non-linear Load) | | |
| Transfer | AC Mode to Batt. Mode | | Ze | ero | | |
| Time | Inverter to Bypass | | Z | ero | | |
| Waveform | (Batt. Mode) | | Pure S | inewave | | |
| | AC Mode | | 100%~110%: 10min · 110% | ~130%: 1min \ >130% : 1sec | | |
| Overload | Battery Mode | | 100%~110%: 30sec \ 110%~ | -130%: 10sec \ >130% : 1sec | | |
| EFFICIEN | ICY | | | | | |
| Line Mode | | | 89 | 9% | | |
| ECO Mod | e. | | 99 | 5% | | |
| Battery Me | | 89% | | | | |
| BATTERY | | | | , , , , , , , , , , , , , , , , , , , | | |
| DATTER | Battery Type | 12 V | / 7 AH | 12\ | //9AH | |
| | Numbers | 16 | 20 | 16 | 20 | |
| Standard | Typical Recharge Time | 10 | · · · · · · · · · · · · · · · · · · · | to 90% capacity | | |
| Model | Charging Current (max.) | | | 0 A | | |
| | Charging Voltage | 218.4 VDC ± 1% | 273 VDC ± 1% | 218.4 VDC ± 1% | 273 VDC ± 1% | |
| | Battery Type | | | n applications | | |
| Long-run | Numbers | 16-20** | | | | |
| Model | Charging Current (max.) | | | 0 A | | |
| | Charging Voltage | (13.65VDC x battery number) ± 1% | | | | |
| INDICATO | | | , | | | |
| LCD Pane | | UPS status, | Load level, Battery level, Input/Outp | out voltage, Discharge timer, and F | ault conditions | |
| ALARM | | | | <u> </u> | | |
| Battery Mo | ode | | Sounding ev | ery 4 seconds | | |
| Low Batte | ry | Sounding every second | | | | |
| Overload | | Sounding twice every second | | | | |
| Fault | | | Continuous | sly sounding | | |
| PHYSICA | L | | | | | |
| Standard | Dimension, DxWxH(mm) | UPS Unit: 610x438x88 [2U] ; Battery Pack: 715x438x88 [2U] ISO bank: 606 x 438 x 133 [3U] | UPS Unit: 610 x 438 x 88 [2U] Battery Pack:600 x 438 x 133 [3U] ISO bank: 606 x 438 x 133 [3U] | UPS Unit: 610x438x88 [2U] ; Battery Pack: 715x438x88 [2U] ISO bank:686 x 438 x 133 [3U] | | |
| Model | Net Weight (kgs) | UPS Unit: 17 Battery Pack: 48 ; ISO bank: 67 | UPS Unit: 17 Battery Pack: 57 ; ISO bank: 67 | UPS Unit: 20 Battery Pack: 53 ; ISO bank: 90 | UPS Unit: 20 Battery Pack: 63 ; ISO bank: 90 | |
| Long-run | Dimension, DxWxH(mm) | UPS Unit: 610x 438 x 88 [2U] ; | ISO bank: 606 x 438 x 133 [3U] | UPS Unit: 610 x 438 x 88 [2U] | ; ISO bank: 686 x 438 x 133 [3U] | |
| Model | | |); ISO bank: 90 | | | |
| ENVIRON | IMENT | | | | | |
| Operating | Humidity | | 20-90 % RH @ 0- 40 | 0°C (non-condensing) | | |
| Noise Lev | | Less than 55 | dB @ 1 Meter | | 8dB @ 1 Meter | |
| MANAGE | | | | | | |
| | -232 / USB | Supp | orts Windows® 2000/2003/XP/Vista | /2008, Windows® 7/8/10, Linux ar | nd MAC | |
| | | Сарр | | MP manager and web browser | · · · · · · · · · · · · · · · · · · · | |
| Optional S | | | . Sator management Holli Oli | anager and med browder | | |

The later capacity to only of capacity in CVC+ middle and to 90% when the output voltage is adjusted to 2004A. Or paraller system is operated.

"When using 16 pieces of batteries, the output power factor will be derated to 0.8. If using 18 or 19 pieces of batteries, the output power factor will be derated to 0.9 if the UPS is installed or used in a place where the altitude is above than 1000m, the output power must be derated one percent per 100m.

Product specifications are subject to change without further notice.

Otima II LiFe



- Line interactive sine wave output
- User-friendly and easy rotate LCD display
- Rack/Tower design
- Built-in boost and buck AVR
- Output power factor 0.9
- Fast battery recharge time
- Programmable power management outlets
- Hot-swappable battery design
- Support half-cycle, inductive and PFC equipment
- More than 8 minutes full load backup time
- Optional HID Power Device USB Port

Otima II LiFe UPS Line Interactive Sinewave UPS Selection Guide

| MODEL | Otima II LiFe 800 | Otima II LiFe 1000 | Otima II LiFe 1500 | Otima II LiFe 2000 | Otima II LiFe 3000 |
|---------------------------------|---|---------------------------|------------------------------|----------------------------|--------------------|
| CAPACITY | 800VA / 720W | 1000 VA / 900 W | 1500 VA / 1350 W | 2000 VA / 1800 W | 3000 VA / 2700 W |
| INPUT | | | | | |
| Nominal Voltage | | 110/115/1 | 20/127 VAC or 208/220/230 | 0/240 VAC | |
| Acceptable Voltage Range | | 8 | 31-152 VAC or 162-290 VA | | |
| Frequency Range | | | 60/50 Hz (auto sensing) | | |
| OUTPUT | | | | | |
| Output Voltage | | 110/115/1 | 20/127 VAC or 208/220/230 | 0/240 VAC | |
| Voltage Regulation (Batt. Mode) | | 1 | 1.5% (before battery alarm | 1) | |
| Frequency Range (Batt. Mode) | | | 50 Hz or 60 Hz ± 1 Hz | | |
| Current Crest Ratio | | | 3:1 | | |
| Harmonic Distortion | 2% n | max @ 100% linear load, 5 | % max @ 100% non-linear | load (before low battery a | larm) |
| Transfer Time | | | Typical 2-6 ms, 10ms max. | | |
| Waveform (Batt. Mode) | | | Pure Sinewave | | |
| EFFICIENCY | | | | | |
| ECO Mode | | | 97% | | |
| Buck & Boost Mode | | | 95% | | |
| Battery Mode | ≧ 9 | 90% @ nominal battery vol | tage | ≧ 92% @ nomin | al battery voltage |
| BATTERY | | | | | |
| Battery Type | LiFe 24V/7.5Ah x 1 | LiFe 24V/7.5Ah x 1 | LiFe 48V/5Ah x 1 | LiFe 72V/2.5Ah x 2 | LiFe 72V/2.5Ah x 3 |
| Charging Current (max.) | | | 4A | | , |
| Typical Recharge Time | | 4 h | nours recover to 90% capac | city | |
| PROTECTION | | | | | |
| Full Protection | | Overload, | discharge, and overcharge | protection | |
| INDICATORS | | | | | |
| LCD Display | AC Mode, Battery | Mode, Load Level, Batter | y Level, Input Voltage, Outp | out Voltage, Overload, Fau | It and Low Battery |
| ALARM | | | | | |
| Battery Mode | | ; | Sounding every 10 seconds | 3 | |
| Low Battery | | | Sounding every 2 seconds | | |
| Overload | | | Sounding every second | | |
| Fault | | | Continuously sounding | | |
| PHYSICAL | | | | | |
| Dimension,DxWxH(mm) | | 410 x 438 x 88 | | 510 x 438 x 88 | 630 x 438 x 88 |
| Net Weight (kgs) | 12.5 | 12.5 | 14.5 | 17.5 | 33.5 |
| ENVIRONMENT | | | | | |
| Humidity | | 0-90 % | RH @ 0- 40°C (Non-cond | ensing) | |
| Noise Level | Less than 45dB | | | | |
| Altitude | 10% de-rating for over 1000m (The altitude should not exceed 3000m) | | | | |
| MANAGEMENT | | | | | |
| | Supports Windows® 2000/2003/XP/Vista/2008/7/8, Linux, Unix, and MAC | | | | |
| USB or RS-232 | | Supports Windows® 20 | 000/2003/XP/Vista/2008/7/8 | 3, Linux, Unix, and MAC | |

^{*}Derate capacity to 80% of capacity when the output voltage is adjusted to 208VAC. Product specifications are subject to change without further notice.



m

Galleon LiFe



- Output power factor 0.9
- Input power factor correction
- Fast battery recharge time shorten to 1.5 hours
- More than 8 min. full load backup time
- Charging current is selectable through LCD display
- Programmable outlet management
- Generator compatible
- Optional HID Power Device USB Port

Galleon LiFe Online UPS Selection Guide

| MODEL | | Galleon LiFe 1000 | Galleon LiFe 1500 | Galleon LiFe 2000 | Galleon LiFe 3000 | |
|--|---------------------------|--|-----------------------------------|--|--------------------|--|
| PHASE | | | Single pha | se with ground | | |
| CAPACITY' | * | 1000 VA / 900 W | 1500 VA / 1350 W | 2000 VA / 1800 W | 3000 VA / 2700 W | |
| INPUT | | | | | | |
| Nominal Vo | Itage | | 100*/110*/115*/120 /127 VAC | C or 200*/208*/220/230/240 VAC | | |
| Voltage Rar | nge | | | 0-300 VAC ± 3% at 50% load -300 VAC ± 3% at 100% load | | |
| Frequency I | Range | | 40Hz | z ~ 70Hz | | |
| Power Facto | or | | ≥ 0.99 @ nomina | al voltage (100% load) | | |
| THDi% | | | = | ≦ 5% | | |
| OUTPUT | | | | | | |
| /oltage | | | 100*/110*/115*/120 /127 VAC | C or 200*/208*/220/230/240 VAC | | |
| /oltage Reg | gulation | | - | ± 1% | | |
| requency R | ange (Synchronized Range) | | 57 ~ 63 Hz | z or 47 ~ 53 Hz | | |
| requency I | Range (Batt. Mode) | | 60 Hz ± 0.1 Hz | or 50 Hz ± 0.1 Hz | | |
| Current Cre | est Ratio | | | 3:1 | | |
| Harmonic D | Distortion | | ≤ 2% THD (Linear Load), | ≤ 4 % THD (Non-linear Load) | | |
| | AC to DC | | | Zero | | |
| Transfer Time | Inverter to Bypass | | 4 ms | (Typical) | | |
| illie | ECO to Battery Mode | | 8 ms (Typic | al), 10 ms(max) | | |
| Naveform (| Batt. Mode) | Pure Sinewave | | | | |
| FFICIENC | Y | | | | | |
| _ine Mode | | ≥ 89% @ batte | ery fully charged | ≥ 91% @ batt | ery fully charged | |
| ECO Mode | | ≥ 96% @ battery fully charged | | | | |
| Battery Mod | de | ≧ 88% | | ≥ 90% | | |
| BATTERY | | | | | | |
| Battery Type | e | LiFe 24V/7.5Ah x 1 | LiFe 48V/5Ah x 1 | LiFe 72V/2.5Ah x 2 | LiFe 72V/2.5Ah x 3 | |
| Charging Co | urrent (max.) | 8A (Selectable from LCD display) | | | | |
| Typical Rec | harge Time | 1.5 hours for fully charged | | | | |
| NDICATOR | RS | | | | | |
| CD Panel | | Load level, | Battery level, AC mode, Battery n | node, Bypass mode, and Fault indica | ator Via LCD | |
| ALARM | | | | | | |
| Battery Mod | de | | Sounding e | every 4 seconds | | |
| ow Battery | , | Sounding every second | | | | |
| Overload | | Sounding twice every second | | | | |
| Fault | | | Continuo | usly sounding | | |
| PHYSICAL | | | | | | |
| Dimension, | D x W x H (mm) | 397 x 15 | 58 x 220 | 480 x 158 x 220 | 590 x 190 x 318 | |
| Net Weight (without battery) (kgs) | | 9.4 | 11 | 15.5 | 21.5 | |
| ENVIRONM | IENT | | | | | |
| Humidity | | | 20-95 % RH @ 0-4 | 45°C (non-condensing) | | |
| Noise Level | | | Less than 50dBA @ 1 M | Meter with Fan speed control | | |
| MANAGEM | IENT | | | | | |
| Smart RS-232 / USB Supports Windows® 2000/2003/XP/Vista/2008, Windows® 7/8/10, Linux and MAC | | | | d MAC | | |
| Smart RS-2 | 32 / USB | Power management from SNMP manager and web browser | | | | |

voltage is adjusted to 100VAC/200VAC/208VAC.

Product specifications are subject to change without further notice.

Galleon One 5KL-48V



- True double-conversion
- Pure Sine-wave output
- Output Power Factor 1.0
- Configurable charging current via LCD setting
- Compatible with Generator
- Cold Start capability
- Overload and short circuit protection
- Very powerful AC charger at 60A
- Optional parallel operation up to 9 units for Single Phase and Three Phase application
- Common 48Vdc battery pack for the parallel system
- Full Bridge inverter design to support half-wave load and unbalanced load

Galleon One 5KL-48V Online UPS Specification

| MODEL | | Galleon One 5KL-48V | | | |
|---|-----------------------|--|--|--|--|
| CAPACITY | | 5000VA/5000W | | | |
| INPUT | | | | | |
| Voltage | | 220/230/240 VAC | | | |
| Voltage Range | | 110-280 VAC @ 50% load ; 176-280 VAC @ 100% load | | | |
| Frequency Range | е | 46~54 Hz or 56~64 Hz | | | |
| Power Factor | | ≥ 0.98 @ Nominal Voltage (100% Load) | | | |
| THDi | | ≦ 8% | | | |
| OUTPUT | | | | | |
| Output Voltage | | 220/230/240 VAC | | | |
| AC Voltage Regu | ulation (Batt. Mode) | ± 1% | | | |
| Frequency Range | (Synchronized Range) | 46~54 Hz or 56~64 Hz | | | |
| Frequency Range | e (Batt. Mode) | 50 Hz ± 0.1 Hz or 60Hz ± 0.1 Hz | | | |
| Current Crest Ra | atio | 3:1 | | | |
| Harmonic Distort | ion | \leq 3% THD (Linear Load), \leq 5 % THD (Non-linear Load) | | | |
| Transfer Time | AC Mode to Batt. Mode | Zero | | | |
| Transier fille | Inverter to Bypass | 4 ms (Typical) | | | |
| Waveform | | Pure Sinewave | | | |
| EFFICIENCY | EFFICIENCY | | | | |
| Line Mode | | 93.0% | | | |
| ECO Mode | | 99.5% | | | |
| Battery Mode | | 91.0% | | | |
| BATTERY | | | | | |
| Battery Voltage | | 48 VDC | | | |
| Floating Charge | Voltage | 54.6 VDC | | | |
| Overcharge Prote | ection | 60 VDC | | | |
| Charging Curren | t (max.) | 60 A | | | |
| INDICATORS | | | | | |
| LCD Panel | | Load level, Battery level, AC mode, Battery mode, Bypass mode, and Fault indicator Via LCD | | | |
| PHYSICAL | | | | | |
| Dimension, D x W x H(mm) | | 465 x 190 x 318 | | | |
| Net Weight (kgs) | | 15.5 | | | |
| Communication I | nterface | RS232 & USB | | | |
| OPERATING EN | VIRONMENT | | | | |
| Humidity | | 0 to 95% Relative Humidity(Non-condensing) | | | |
| Operating Tempe | erature | 0°C to 50°C | | | |
| Storage Tempera | ature | -15°C to 60°C | | | |
| Product specifications are subject to change without further notice | | | | | |



Solar UPS



- True double-conversion online UPS
- Output power factor 1.0
- Built-in 80A MPPT solar charger and 60A AC charger
- Configurable AC/Solar input priority via LCD setting
- Parallel operation up to 9 units
- Common 48Vdc battery pack for the parallel system
- Configurable charging current via LCD setting
- Compatible with Generator
- Cold Start capability
- Overload and short circuit protection

Solar UPS Specification

| MODEL | | Solar UPS 5KW | | |
|---|---------------------------|--|--|--|
| MAXIMUM PV | INPUT POWER | 6000W | | |
| CAPACITY | | 5000VA/5000W | | |
| INPUT | | | | |
| Voltage | | 230 VAC | | |
| Voltage Range | | 110-280 VAC | | |
| Frequency Ran | ge | 50 Hz/60 Hz (Auto sensing) ± 4Hz | | |
| Power Factor | | ≥ 0.98 @ Nominal Voltage (100% Load) | | |
| THDi | | ≦ 10% | | |
| OUTPUT | | | | |
| AC Voltage Reg | gulation (Batt. Mode) | 230VAC ± 5% | | |
| Frequency Range | e (Synchronized Range) | 46~54 Hz or 56~64 Hz | | |
| Frequency Ran | ge (Batt. Mode) | 50 Hz | | |
| Harmonic Disto | ortion | ≤ 3% THD (Linear Load), ≤ 5 % THD (Non-linear Load) | | |
| Transfer Time | AC Mode to Batt. Mode | Zero | | |
| Transier Time | Inverter to Bypass | 4 ms (Typical) | | |
| Waveform | | Pure Sinewave | | |
| EFFICIENCY | | | | |
| Line Mode | | 93.0% | | |
| ECO Mode | | 99.0% | | |
| Battery Mode | | 90.0% | | |
| BATTERY | | | | |
| Battery Voltage | ! | 48 VDC | | |
| Floating Charge | e Voltage | 54 VDC | | |
| Overcharge Pro | otection | 66 VDC | | |
| SOLAR CHAR | GER & AC CHARGER | | | |
| Solar Charger t | уре | MPPT | | |
| Maximum PV A | rray Power | 4000 W | | |
| MPPT Range @ | Operating Voltage | 60 ~ 115 VDC | | |
| Maximum PV A | rray Open Circuit Voltage | 145 VDC | | |
| Maxmum Solar | Charge Current | 80 A | | |
| Maximum AC C | Charge Current | 60 A | | |
| Maximum Charger Current | | 140 A | | |
| PHYSICAL | | | | |
| Dimension, D x W x H(mm) | | 465 x 190 x 336 | | |
| Net Weight (kgs) | | 16 | | |
| Communication Interface | | RS232 & USB | | |
| OPERATING E | NVIRONMENT | | | |
| Humidity | | 5% to 95% Relative Humidity(Non-condensing) | | |
| Operating Temp | perature | -10°C to 50°C | | |
| Storage Temper | rature | -15°C to 60°C | | |
| Product specifications are subject to change without fi | | further notice | | |

Winner Pro 3P/1P



- True double-conversion
- Output power factor 0.8
- Wide input voltage range
- 50Hz frequency converter mode
- Emergency power off function (EPO)
- Generator compatible
- SNMP+USB+RS-232 multiple communications
- 3-stage extendable charging design for optimized battery performance
- Optional maintenance bypass switch
- Supports 3P/1P & 1P/1P operation

Winner Pro 3-phase in/1-phase out Online UPS Selection Guide

| MODEL | | Winner Pro 3/1 10K (L) Winner Pro 3/1 15K (L) Winner Pro 3/1 20K (L) | | | | | 3/1 20K (L) | |
|---------------------------|--------------------------------------|--|---|---------------------------|---------------------------------------|---------------------------------------|--------------------|--|
| PHASE | | 3 phase in / 1 phase out | | | | | | |
| CAPACITY | • | 10000 VA | / 8000 W | 15000 VA | / 12000 W | 20000 VA | / 16000 W | |
| INPUT | | | | | | | | |
| Nominal Vo | ltage | | | 3 x 400 V/ | AC (3Ph+N) | | | |
| Voltage Ra | nge | | | | hase) @ 50% load nase) @ 100% load | | | |
| Frequency | Range | | | 46~ | 54 Hz | | | |
| OUTPUT | | | | | | | | |
| Output Volt | age | | | 208/220/2 | 30/240VAC | | | |
| AC Voltage | Regulation (Batt. Mode) | | | ± | 1% | | | |
| Frequency | Range (Synchronized Range) | | | 46~ | 54Hz | | | |
| Frequency | Range (Batt. Mode) | | | 50 Hz : | € 0.1 Hz | | | |
| Current Cre | est Ratio | | | 3:1 (| max.) | | | |
| Harmonic D | Distortion | | ≦ 3 % | 6 THD (Linear Load); | ≤ 5 % THD (Non-linear | · Load) | | |
| Transfer | AC Mode to Batt. Mode | | | Z | ero | | | |
| Time | Inverter to Bypass | | | Z | ero | | | |
| Waveform (| (Batt. Mode) | | | Pure S | inewave | | | |
| EFFICIENC | Y | | | | | | | |
| AC Mode | | 91 | % | 9. | 1% | 91 | % | |
| Battery Mod | de | 91 | % | 9. | 1% | 91 | % | |
| BATTERY | | | | | | | | |
| | Battery Type | | | 12 V | / 9 AH | | | |
| | Numbers | 16 pcs | 20 pcs | 16 pcs | 20 pcs | 16 pcs x 2 strings | 20 pcs x 2 strings | |
| Standard | Typical Recharge Time | | · | 9 hours recover | to 90% capacity | | | |
| Model | Charging Current (max.) | 1A ± 10% | | | · · · | 1A/2A/4A ± 10% (2A default) | | |
| | Charging Voltage | 218.4 VDC ± 1% | 273 VDC ± 1% | 218.4 VDC ± 1% | 273 VDC ± 1% | 218.4 VDC ± 1% | 273 VDC ± 1% | |
| | Battery Type | | | Depending on the capa | city of external batterie | S | | |
| Long-run | Numbers | 16 pcs | 20 pcs | 16 pcs | 20 pcs | 16 pcs | 20 pcs | |
| Model | Charging Current (max.) | | | 4A Default, 1A/2 | A/4A (Adjustable) | | | |
| | Charging Voltage | 218.4 VDC ± 1% | 273 VDC ± 1% | 218.4 VDC ± 1% | 273 VDC ± 1% | 218.4 VDC ± 1% | 273 VDC ± 1% | |
| INDICATOR | | | | | | | | |
| LCD Panel | | UF | S status, Load level, F | Battery level, Input/Outr | out voltage. Discharge t | imer, and Fault condition | ns | |
| ALARM | | - | | ,,,, | | | | |
| Battery Mod | de | | | Sounding ev | ery 4 seconds | | | |
| Low Batter | | | | | very second | | | |
| Overload | , | | | | e every second | | | |
| Fault | | | | | sly sounding | | | |
| PHYSICAL | | | | | , | | | |
| Standard | Dimension, D x W x H mm) |) 442 x 190 x 688 442 x 190 x 688 815 x 250x | | | 50x 826 | | | |
| Model | Net Weight (kgs) | 66 | 76 | 67 | 78 | 125 | 145 | |
| Long-run | Dimension, D x W x H (mm) | 442 x 190 x 318 | | | 575 x 19 | | | |
| Model | Net Weight (kgs) | 1 | | 1 | 6 | 18. | | |
| PROFESSION (AGG) 10 10.00 | | | | | | | | |
| Operating H | | | | 0-95 % RH @ 0- 50 | °C (Non-condensing) | | | |
| Noise Leve | | | 0-95 % RH @ 0-50°C (Non-condensing) Less than 60dB @ 1 Meter | | | | | |
| MANAGEN | | | | 2000 (11011 00 | & | | | |
| Smart RS-2 | | | Supports Window | s® 2000/2003/XP/Vista | /2008 Windows® 7/8/ | 10. Linux and MAC | | |
| Optional SN | | | | management from SN | | · · · · · · · · · · · · · · · · · · · | | |
| | cifications are subject to change wi | thout further potice | i-owei | management nom Siv | vii manager and web t | 71011061 | | |
| · · ouuci spec | mound are subject to charige wi | arout furtifier House. | | | | • • • | | |



Galleon Pro 3P/1P Tower



- True double-conversion
- DSP technology guarantees high performance
- Output power factor 0.9
- Active power factor correction in all phases
- Support both 3P/1P and 1P/1P operation
- 50Hz/60Hz frequency converter mode
- ECO mode operation for energy saving
- Programmable power management outlets
- Emergency power off function (EPO)
- Generator compatible
- SNMP+USB+RS-232 multiple communications
- 3-stage extendable charging design for optimized battery performance
- Adjustable battery numbers
- Maintenance bypass available
- Optional N+X parallel redundancy

Galleon Pro 3-phase in/1-phase out Online UPS Selection Guide

| PMASE | | <u></u> | iii, i piiasc out | Offiliate of 5 Set | 0.11. 12. 044.0015.11. | D 11 D 24 224 11 | |
|---|----------------|---------------------------|----------------------------------|-------------------------------------|-----------------------------------|---------------------------------|--|
| MPUT | MODEL | | Galleon Pro 3/1-10K (L) | Galleon Pro 3/1-15K (L) | Galleon Pro 3/1-20K (L) | Galleon Pro 3/1-30K (L) | |
| Neutral Neu | | | 10000) (1 10000) | | | 00000 \ (4 \ 07005 ::: | |
| Naminal Vallage | | | 10000 VA / 9000 W | 15000 VA / 13500 W | 20000 VA / 18000 W | 30000 VA / 27000 W | |
| 190-520 VAC (3-phase) @ 50% load : 305-478 VAC (3-phase) @ 100% load Prequency Range | | | | | 0 (00) +10 | | |
| Finespency Ramps | | 1 | | | | | |
| Power Factor | | | 190- | · · · · · · | , , , | load | |
| THO | | nge | | | | | |
| OUTPUT OUTPUT VOITING OUTPUT VOITING COUTPUT VOITING COUTPUT VOITING | | | | ≥ 0.99 @ | 100% Load | | |
| Output Vallage 208/220/23/24/04/C AC Voltage Regulation (Batt, Mode) 1 ************************************ | | | | < 6% @ . | 100% load | | |
| AC Voltage Regulation (falt, Mode) Frequency Range (Start, Mode) Frequency Range (Start, Mode) Current Crest Ralic Current Ralic Current Crest Ralic Current Crest Ralic Current Crest Ra | OUTPUT | | | | | | |
| Fequency Range (Synchroized Range) | Output Voltage | 9 | | 208/220/2 | 30/240VAC | | |
| Frequency Range (Batt. Mode) 50 Hz ± 0.1 Hz or 60 Hz ± 0.1 Hz 1 Hz or 60 Hz ± 0.1 Hz | AC Voltage Re | egulation (Batt. Mode) | | ± | 1% | | |
| Harmonic District | Frequency Ra | nge (Synchronized Range) | | 46~54Hz (| or 56~64Hz | | |
| Harmonic District | Frequency Ra | nge (Batt. Mode) | | 50 Hz ± 0.1 Hz o | or 60 Hz ± 0.1 Hz | | |
| Harmonic District | | | | 3:1 (| max.) | | |
| March Mar | | | | | | | |
| Time Inverter to Bypass Zero Waveform (Batt. Mode) Pure Sinewave FEFFICIENCY FEFFICIENCY AC Mode 91.5% 91.8% 91.8% 92.1% ECO Mode 97% 97% 97% 97% Battery Mode 87% 98% 88% 89% Battery Type 12 V / 9 Ah Numbers 20 pcs (18 - 20 pcs adjustable)* 20 pcs (18 - 20 pcs adjustable)* 2 strings 20pcs (18 - 20 pcs adjustable)* 3 strings Standard Model Typical Recharge Time 9 hours recover to 90% capacity 9 hours recover to 90 | Harmonic Dist | ortion | | | | | |
| Waveform (Batt. Mode) Pure Sile wave Pure Sile wav | Transfer | AC Mode to Batt. Mode | | Ze | ero | | |
| FFFICIENCY AC Mode 91.5% 91.8% 91.8% 91.8% 92.1% ECO Mode 97% 97% 97% 97% Battery Mode 87% 88% 88% 69% BATTERY Numbers 20 pcs (18 - 20 pcs adjustable)* 20 pcs (18 - 20 pcs adjustable)* x 2 strings 20pcs (18 - 20 pcs adjustable)* x 3 strings Standard Model Numbers 20 pcs (18 - 20 pcs adjustable)* 20 pcs (18 - 20 pcs adjustable)* x 2 strings 20pcs (18 - 20 pcs adjustable)* x 3 strings 20pcs (18 - 20 pcs adjustable)* x 3 strings 20pcs (18 - 20 pcs adjustable)* x 2 strings 20pcs (18 - 20 pcs adjustable)* x 3 strings 20pcs (18 - 20 pcs adjustable)* x 2 strings 20pcs (18 - 20 pcs adjustable)* x 2 strings 20pcs (18 - 20 pcs adjustable)* x 2 strings 20pcs (18 - 20 pcs adjustable)* x 2 strings 20pcs (18 - 20 pcs adjustable)* x 2 strings 20pcs (18 - 20 pcs adjustable)* x 2 strings 20pcs (18 - 20 pcs adjustable)* x 2 strings 20pcs (18 - 20 pcs adjustable)* x 2 strings 20pcs (18 - 20 pcs adjustable)* x 2 strings 20pcs (18 - 20 pcs adjustable)* x 2 strings 20pcs (18 - 20 pcs adjustable)* x 2 strings 20pcs (18 - 20 pcs adjustable)* x 2 strings 20pcs (18 - 20 pcs adjustable)* x 2 strings 20pcs (18 - 20 pcs adjustable)* x 2 str | Time | Inverter to Bypass | | Ze | ero | | |
| FFFICIENCY AC Mode 91.5% 91.8% 91.8% 91.8% 92.1% ECO Mode 97% 97% 97% 97% Battery Mode 87% 88% 88% 69% BATTERY Numbers 20 pcs (18 - 20 pcs adjustable)* 20 pcs (18 - 20 pcs adjustable)* x 2 strings 20pcs (18 - 20 pcs adjustable)* x 3 strings Standard Model Numbers 20 pcs (18 - 20 pcs adjustable)* 20 pcs (18 - 20 pcs adjustable)* x 2 strings 20pcs (18 - 20 pcs adjustable)* x 3 strings 20pcs (18 - 20 pcs adjustable)* x 3 strings 20pcs (18 - 20 pcs adjustable)* x 2 strings 20pcs (18 - 20 pcs adjustable)* x 3 strings 20pcs (18 - 20 pcs adjustable)* x 2 strings 20pcs (18 - 20 pcs adjustable)* x 2 strings 20pcs (18 - 20 pcs adjustable)* x 2 strings 20pcs (18 - 20 pcs adjustable)* x 2 strings 20pcs (18 - 20 pcs adjustable)* x 2 strings 20pcs (18 - 20 pcs adjustable)* x 2 strings 20pcs (18 - 20 pcs adjustable)* x 2 strings 20pcs (18 - 20 pcs adjustable)* x 2 strings 20pcs (18 - 20 pcs adjustable)* x 2 strings 20pcs (18 - 20 pcs adjustable)* x 2 strings 20pcs (18 - 20 pcs adjustable)* x 2 strings 20pcs (18 - 20 pcs adjustable)* x 2 strings 20pcs (18 - 20 pcs adjustable)* x 2 strings 20pcs (18 - 20 pcs adjustable)* x 2 str | Waveform (Ba | | | | | | |
| AC Mode | | | | | | | |
| ECO Mode | | | 91.5% | 91.8% | 91.8% | 92.1% | |
| ## Pattery Mode | | | | | | | |
| Saturation Standard Model Mumbers 20 pcs (18 - 20 pcs adjustable)* 20 pcs (| | | | | | - | |
| Standard Numbers 20 pcs (18 - 20 pcs adjustable)* 20 pcs (18 - 20 pcs adjusta | - | | 81 /6 | 0876 | 86 /6 | 8976 | |
| Numbers 20 pcs (18 - 20 pcs adjustable) 20 pcs (20 pcs adjus | BAITERY | р т | | 40.1/ | 40.41 | | |
| Standard Mode Application Applicatio | | Battery Type | | 12 V | / 9 Ah | T | |
| Charging Current (max.) 1A 2A 2A 4A Charging Voltage 273 VDC ± 1% (Based on 20pcs batteries) Model Extern Type Numbers Depending on applications Charging Voltage Charging Voltage 4A 8A 8A 12A INDICATORS LCD Display Make and a second seco | Standard | | 20 pcs (18 - 20 pcs adjustable)* | | | x3 strings | |
| Charging Voltage | Model | | | | | 9 hours recover to 90% capacity | |
| Battery Type Numbers Numbers Depending or Depend | | Charging Current (max.) | 1A | 2A | 2A | 4A | |
| Numbers Charging Current (max.) 4A | | Charging Voltage | | 273 VDC ± 1% (Base | ed on 20pcs batteries) | | |
| Long-run Model Mumbers Mumbers Mumbers Mumbers Mumbers Model Mumbers Mumber | | Battery Type | Departing an applications | | | | |
| Model Notice | Long-run | Numbers | - Depending on applications | | | | |
| NDICATORS | | Charging Current (max.) | 4A | 8A | 8A | 12A | |
| NDICATORS Section S | | | | 273 VDC ± 1% (Base | ed on 20pcs batteries) | | |
| ALARM Battery Mode | INDICATORS | | | | | | |
| ALARM Battery Mode | LCD Display | | UPS status, Lo | ad level, Battery level, Input/Outp | out voltage, Discharge timer, and | Fault conditions | |
| Low Battery Sounding every second Overload Sounding twice every second Fault Continously sounding PHYSICAL Standard Model Dimension, D x W x H (mm) 592 x 250 x 576 815 x 250 x 826 815 x 300 x 1000 Model Net Weight (kgs) 83 164 164 234 Long-run Model Dimension, D x W x H (mm) 592 x 250 x 576 592 x 250 x 576 815 x 250 x 826 Model Net Weight (kgs) 28 40 40 64 ENVIRONMENT Coperating Humidity 0-95 % RH @ 0-40 °C (Non-condensing) Noise Lev! Less than 58dB @ 1 Meter Less than 65dB @ 1 Meter Less than 65dB @ 1 Meter | | | | | | | |
| Low Battery Sounding every second Overload Sounding twice every second Fault Continously sounding PHYSICAL Standard Model Dimension, D x W x H (mm) 592 x 250 x 576 815 x 250 x 826 815 x 300 x 1000 Model Net Weight (kgs) 83 164 164 234 Long-run Model Dimension, D x W x H (mm) 592 x 250 x 576 592 x 250 x 576 815 x 250 x 826 815 x 25 | Battery Mode | | | Sounding eve | ery 4 seconds | | |
| Fault Continously sounding PHYSICAL Standard Model Dimension, D x W x H (mm) 592 x 250 x 576 815 x 250 x 826 815 x 300 x 1000 Model Net Weight (kgs) 83 164 164 234 Long-run Model Dimension, D x W x H (mm) 592 x 250 x 576 592 x 250 x 576 592 x 250 x 576 815 x 250 x 826 Model Net Weight (kgs) 28 40 40 64 ENVIRONMENT Operating Humidity 0-95 % RH @ 0- 40°C (Non-condensing) Noise Level Less than 58dB @ 1 Meter Less than 60dB @ 1 Meter Less than 65dB @ 1 Meter | Low Battery | | | | | | |
| PHYSICAL Standard Model Dimension, D x W x H (mm) 592 x 250 x 576 815 x 250 x 826 815 x 300 x 1000 Model Net Weight (kgs) 83 164 164 234 Long-run Model Dimension, D x W x H (mm) 592 x 250 x 576 592 x 250 x 576 592 x 250 x 576 815 x 250 x 826 Model Net Weight (kgs) 28 40 40 64 ENVIRONMENT Operating Humidity 0-95 % RH @ 0 - 40°C (Non-condensing) Noise Leve Less than 58dB @ 1 Meter Less than 60dB @ 1 Meter Less than 65dB @ 1 Meter | Overload | | | | | | |
| Standard Model Dimension, D x W x H (mm) 592 x 250 x 576 815 x 250 x 826 815 x 300 x 1000 Model Net Weight (kgs) 83 164 164 234 Long-run Model Dimension, D x W x H (mm) 592 x 250 x 576 592 x 250 x 576 592 x 250 x 576 815 x 250 x 826 Weight (kgs) 28 40 40 64 ENVIRONMENT Coperating Humidity 0-95 % RH @ 0 - 40 °C (Non-condensing) Noise Level Less than 58dB @ 1 Meter Less than 60dB @ 1 Meter Less than 65dB @ 1 Meter | Fault | | | Continous | y sounding | | |
| Model Net Weight (kgs) 83 164 164 234 Long-run Model Dimension, D x W x H (mm) 592 x 250 x 576 592 x 250 x 576 592 x 250 x 576 815 x 250 x 826 Model Net Weight (kgs) 28 40 40 64 ENVIRONMENT Coperating Humidity 0-95 % RH @ 0 - 40 °C (Non-condensing) Noise Level Less than 58dB @ 1 Meter Less than 65dB @ 1 Meter Less than 65dB @ 1 Meter | PHYSICAL | | · | | · • | | |
| Model Net Weight (kgs) 83 164 164 234 Long-run Model Dimension, D x W x H (mm) 592 x 250 x 576 592 x 250 x 576 592 x 250 x 576 815 x 250 x 826 Model Net Weight (kgs) 28 40 40 64 ENVIRONMENT Coperating Humidity 0-95 % RH @ 0 - 40 °C (Non-condensing) Noise Level Less than 58dB @ 1 Meter Less than 65dB @ 1 Meter Less than 65dB @ 1 Meter | Standard | Dimension, D x W x H (mm) | 592 x 250 x 576 | 815 x 25 | 50 x 826 | 815 x 300 x 1000 | |
| Long-run Model Dimension, D x W x H (mm) 592 x 250 x 576 592 x 250 x 576 592 x 250 x 576 815 x 250 x 826 Model Net Weight (kgs) 28 40 40 64 ENVIRONME™ Operating Humidity 0-95 % RH @ 0-40 °C (Non-condensing) Noise Levs Less than 65dB @ 1 Meter Less than 65dB @ 1 Meter Less than 65dB @ 1 Meter | | | | | · | <u> </u> | |
| Model Net Weight (kgs) 28 40 40 64 ENVIRONMENT Operating Humidity 0-95 % RH @ 0- 40°C (Non-condensing) Noise Leve | Long-run | | | | | - | |
| ENVIRONMENT Operating Humidity Oess than 58dB @ 1 Meter Less than 60dB @1 Meter Less than 65dB @1 Meter MANAGEMENT | | | | | | | |
| Operating Humidity 0-95 % RH @ 0-40°C (Non-condensing) Noise Level Less than 58dB @ 1 Meter Less than 60dB @1 Meter Less than 65dB @1 Meter MANAGEMENT | ENVIRONMEN | | | <u> </u> | | | |
| Noise Level Less than 58dB @ 1 Meter Less than 60dB @1 Meter Less than 65dB @1 Meter MANAGEMENT | - | | | 0-95 % RH @ 0- 40 | °C (Non-condensing) | | |
| MANAGEMENT | | | Less than 58dB @ 1 Meter | | | Less than 65dB @1 Meter | |
| | | NT | | | | | |
| Smart RS-232 / USB Supports Windows* 2000/2003/XP/Vista/2008, Windows* 7/8/10, Linux and MAC | | | Suppor | ts Windows® 2000/2003/XP/Vista | /2008, Windows® 7/8/10, Linux a | nd MAC | |
| Optional SNMP Power management from SNMP manager and web browser | | | | | | | |
| *L means long-run model. | | | | | | | |

^{**}When using internal batteries from 18-19, the unit will de-rate according to below formula: P = PRating x N/20.

^{**}Derate capacity to 90% of capacity when the output voltage is adjusted to 208VAC. Product specifications are subject to change without further notice.

³¹ www.voltronicpower.com

Galleon Pro 3P/1P Rackmount



- True double-conversion
- DSP technology guarantees high performance
- Output power factor 0.9
- Active power factor correction in all phases
- Support 3P/1P and 1P/1P operation
- 50Hz/60Hz frequency converter mode
- ECO mode operation for energy saving
- Emergency power off function (EPO)
- Generator compatible
- SNMP+USB+RS-232 multiple communications
- 3-stage extendable charging design for optimized battery performance
- Adjustable battery numbers
- Optional N+X parallel redundancy

Galleon Pro 3-phase in / 1-phase out Rack Online UPS Selection Guide

| MODEL | | Galleon Pro 3/1-10KR (L) | Galleon Pro 3/1-15KR (L) | Galleon Pro 3/1-20KR (L) | | |
|------------------------|----------------------------|--|--|---|--|--|
| PHASE | | | 3-phase in / 1-phase out | | | |
| CAPACITY | | 10000 VA/9000 W | 15000 VA/13500 W | 20000 VA / 18000 W | | |
| NPUT | | | | | | |
| Nominal V | /oltage | | 3 x 400 VAC (3Ph+N) | | | |
| /oltage Ra | | 100 520 \/AC | (3-phase) at 50% load ; 305-478 VAC (3-phase) | no) at 100% load | | |
| | | 190-320 VAC | 46~54 Hz or 56~64Hz | se) at 100 % load | | |
| Frequency | | | | | | |
| Power Fac | ctor | | ≥ 0.99 @ 100% Load | | | |
| ГНDi | | | < 6% @ 100% Load | | | |
| OUTPUT | | | | | | |
| Output Vo | _ - | | 208/220/230/240VAC | | | |
| | e Regulation (Batt. Mode) | | ± 1% | | | |
| | Range (Synchronized Range) | | 46~54Hz or 56~64Hz | | | |
| | / Range (Batt. Mode) | | 50 Hz ± 0.1 Hz or 60 Hz ± 0.1 Hz | | | |
| Current Ci | rest Ratio | | 3:1 | | | |
| Harmonic | Distortion | | \leq 2 % THD (Linear Load) \leq 5 % THD (Non-linear Load) | | | |
| Transfer | AC Mode to Batt. Mode | | Zero | | | |
| Time | Inverter to Bypass | | Zero | | | |
| Naveform | (Batt. Mode) | | Pure Sinewave | | | |
| EFFICIEN | | | | | | |
| AC Mode | | 90.5% | | 91% | | |
| ECO Mode | e | 96% | | 96% | | |
| Battery Mo | | 87% | | 88% | | |
| BATTERY | | 5. 70 | | | | |
| MITERI | Battery Type | | 12 V / 9 Ah | | | |
| | | 20 (18 - 20 pcs* adjustable) | | | | |
| Standard | Numbers | 20 (18 - 20 pcs* adjustable) 20 pcs x 2 strings (18 - 20 pcs* adjustable) 9 hours recover to 90% capacity | | | | |
| Model | Typical Recharge Time | | | | | |
| | Charging Current (max.) | 1A | | 2A | | |
| | Charging Voltage | 273 VDC ± 1% (based on battery numbers at 20 pcs) | | | | |
| | Battery Type | | Depending on the capacity of external batteri | es | | |
| ong-run | Numbers | | | | | |
| Model | Charging Current (max.) | 4A | | | | |
| | Charging Voltage | 273 | 3 VDC ± 1% (based on battery numbers at 20 | pcs) | | |
| NDICATO | ORS | | | | | |
| CD Displ | ay | UPS status, Load level, E | Battery level, Input/Output voltage, Discharge | timer, and Fault conditions | | |
| ALARM | | | | | | |
| Battery Mo | ode | | Sounding every 4 seconds | | | |
| ow Batte | | Sounding every second | | | | |
| Overload | ., | Sounding every second Sounding twice every second | | | | |
| ault | | Continously sounding | | | | |
| PHYSICA | L | | continuos, counting | | | |
| Standard | Dimension, D x W x H (mm) | UPS unit:668 x 438 x 133 [3U] Battery pack: 580 x 438 x 133 [3U] | | x 438 x 266 [6U] 438 x 133 [3U] x 2PCS | | |
| Model | Net Weight (kgs) | UPS unit: 22 Battery pack: 63 | UPS | unit: 45 ck: 63 x 2 pcs | | |
| _ong-run | Dimension, D x W x H (mm) | 668 x 438 x 133 [3U] | | 8 x 266 [6U] | | |
| Model Net Weight (kgs) | | 22 | | 45 | | |
| NVIRON | | | | | | |
| | | | 0.05 % PU @ 0.40°C (Non condensing) | | | |
| Operating Noise Lev | | Loca than CO-D @ 4 M-1 | 0-95 % RH @ 0- 40°C (Non-condensing) | EdD @ 1 Mater | | |
| voise Lev | | Less than 60dB @ 1 Meter | Less than 6 | 5dB @ 1 Meter | | |
| | WENI | | | | | |
| MANAGE | | Smart RS-232 / USB Supports Windows* 2000/2003/XP/Vista/2008, Windows* 7/8/10, Linux and MAC | | | | |
| MANAGE | | | management from SNMP manager and web | | | |



Galleon Pro 3P/3P



- True double-conversion
- DSP technology guarantees high performance
- Output power factor 0.9
- Active power factor correction in all phases
- 50Hz/60Hz frequency converter mode
- ECO mode operation for energy saving (ECO)
- Accepts dual-mains inputs (Only for 10K/15K/20K models)
- Emergency power off function (EPO)
- Generator compatible
- SNMP+USB+RS-232 multiple communications
- 3-stage extendable charging design for optimized battery performance
- Adjustable battery numbers
- Maintenance bypass available
- Optional N+X parallel redundancy

Galleon Pro 3-phase in/3-phase out Online UPS Selection Guide

| MODEL | | Galleon Pro 3/3-10K (L) | Galleon Pro 3/3-15K (L) | Galleon Pro 3/3-20K (L) | Galleon Pro 3/3-30K (L) | |
|---|---|---|-------------------------------------|------------------------------------|--------------------------|--|
| PHASE | | Calleon 1 10 0/0-101((2) | | 3-phase out | Cancerri 10 0/0-cert (E) | |
| CAPACITY | | 10000 VA / 9000 W | 15000 VA / 13500 W | 20000 VA / 18000 W | 30000 VA / 27000 W | |
| INPUT | | 10000 VA7 3000 VV | 13000 VA7 13300 VV | 20000 VA7 10000 W | 30000 VA7 27000 VV | |
| Nominal V | (altage | | 3 × 400 \// | AC (3Ph+N) | | |
| | | 400 | | | land. | |
| | age Range | 190 | | 305-478 VAC (3-phase) at 100% | loau | |
| Frequency | _ | | | or 56~64Hz | | |
| Power Fac | ctor | L | ≥ 0.99 @ | 100% Load | | |
| OUTPUT | | | | | | |
| Output Vo | | | | AC (3Ph+N) | | |
| | e Regulation (Batt. Mode) | | | 1% | | |
| | Range (Synchronized Range) | | | or 56~64Hz | | |
| | / Range (Batt. Mode) | | | or 60 Hz ± 0.1 Hz | | |
| Current Cr | | | - ' | max.) | | |
| Harmonic | | | | ≤ 5 % THD (Non-linear Load) | | |
| Transfer | AC Mode to Batt. Mode | | | ero | | |
| Time | Inverter to Bypass | | | ero | | |
| | (Batt. Mode) | | Pure S | inewave | | |
| EFFICIEN | CY | | | | | |
| AC Mode | | 90.5% | 91.5% | 91.5% | 92.1% | |
| ECO Mode | е | | 9 | 3% | | |
| Battery Mo | ode | 87% | 88% | 88% | 89% | |
| BATTERY | • | | | | | |
| | Battery Type | | 12 V | / 9 Ah | | |
| | Numbers | 20 pcs (18 - 20 adjustable)* 20 pcs (18 - 20 adjustable)*x 2 strings 20pcs (18-20 adjustable)* x 3 string | | | | |
| Standard Model | Typical Recharge Time | | 9 hours recover | to 90% capacity | | |
| IVIOGCI | Charging Current (max.) | 1A | 2A | 2A | 4A | |
| | Charging Voltage | | 273 VI | OC ± 1% | | |
| | Battery Type | | | | | |
| Long-run | Numbers | Depending on the capacity of external batteries | | | | |
| Model | Charging Current (max.) | 4A | 4A | 4A | 12A | |
| | Charging Voltage | | 273 VI | OC ± 1% | | |
| INDICATO | DRS | | | | | |
| LCD Displ | ay | UPS stat | us, Load level, Battery level, Inpu | t/Output voltage, Discharge timer, | and Fault | |
| ALARM | | | | | | |
| Battery Mo | ode | | Sounding ev | ery 4 seconds | | |
| Low Batte | ry | | Sounding e | very second | | |
| Overload | | Sounding twice every second | | | | |
| Fault | | | | ly sounding | | |
| PHYSICA | L | | | <u>-</u> | | |
| Standard | Dimension, D x W x H (mm) | 815 x 250 x 826 | 815 x 250 x 826 | 815 x 250 x 826 | 815 x 300 x 1000 | |
| Model | Net Weight (kgs) | 109 | 164 | 164 | 233.5 | |
| Long-run | Dimension, D x W x H (mm) | 592 x 250 x 826 | 592 x 250 x 826 | 592 x 250 x 826 | 815 x 250 x 826 | |
| Model | Net Weight (kgs) | 38 | 40 | 40 | 64 | |
| ENVIRON | MENT | | | | | |
| Operating | | | 0-95 % RH @ 0- 40 | °C (Non-condensing) | | |
| Noise Level Less than 60dB @ 1 Meter Less than 65dB @ 1 Meter | | | | | | |
| MANAGE | | | | | | |
| | -232 / USB | Suppor | | n/2008, Windows® 7/8/10, Linux a | nd MAC | |
| Optional S | | | • | MP manager and web browser | | |
| *When usin | When using internal batteries from 18-19, the unit will de-rate according to the below formula: P = PRating x N/20. | | | | | |

Galleon Pro 3P/3P Rackmount



- True double-conversion
- DSP technology guarantees high performance
- Output power factor 0.9
- Active power factor correction in all phases
- 50Hz/60Hz frequency converter mode
- Eco mode operation for energy saving (ECO)
- Accepts dual power inputs
- Emergency power off function (EPO)
- Generator compatible
- SNMP+USB+RS-232 multiple communications
- 3-stage extendable charging design for optimized battery performance
- Adjustable battery numbers
- Optional N+X parallel redundancy
- Optional isolation transformer offers full isolation and complete common mode noise

Galleon Pro 3-phase in / 3-phase out Rack Online UPS Selection Guide

| MODEL | | Galleon Pro 3/3-10KR (L) | Galleon Pro 3/3-15KR (L) | Galleon Pro 3/3-20KR (L) | | |
|--------------------|----------------------------|--|--|---|--|--|
| PHASE | | | 3-phase in / 3-phase out | | | |
| CAPACITY | | 10000 VA / 9000 W | 15000 VA / 13500 W | 20000 VA / 18000 W | | |
| INPUT | | | | | | |
| Nominal Volt | age | | 3 x 400 VAC (3Ph+N) | | | |
| Voltage Ran | | 100 520 \/AC | (3-phase) at 50% load ; 305-478 VAC (3-phase | a) at 100% load | | |
| | - | 190-320 VAC | | e) at 100 % load | | |
| Frequency R | | | 46~54 Hz or 56~64Hz | | | |
| Power Facto | or | | ≥ 0.99 @ 100% Load | | | |
| OUTPUT | | | | | | |
| Output Volta | | | 3 x 400 VAC (3Ph+N) | | | |
| | Regulation (Batt. Mode) | | ± 1% | | | |
| | Range (Synchronized Range) | | 46~54Hz or 56~64Hz | | | |
| Frequency R | Range (Batt. Mode) | | 50 Hz ± 0.1 Hz or 60 Hz ± 0.1 Hz | | | |
| Current Cres | st Ratio | | 3:1 (max.) | | | |
| Harmonic Di | stortion | | ≤ 2 % THD (Linear Load) | | | |
| Tialifionic Di | | | ≤ 5 % THD (Non-linear Load) | | | |
| Transfer | AC Mode to Batt. Mode | | Zero | | | |
| Time | Inverter to Bypass | | Zero | | | |
| Waveform (E | Batt. Mode) | | Pure Sinewave | | | |
| EFFICIENCY | Y | | | | | |
| AC Mode | | 90.5% | 91.0% | 91% | | |
| ECO Mode | | | 96% | | | |
| Battery Mode | e | 86% | 87% | 87% | | |
| BATTERY | | | | | | |
| | Battery Type | | 12 V / 9 Ah | | | |
| | Numbers | 20 pcs (18-20 adjustable)** | 20 pcs (18-20 adjustable)**x 2 strings | 20pcs (18-20 adjustable)** x 2 strings | | |
| Standard | Typical Recharge Time | 20 pes (10 20 dejustable) | 9 hours recover to 90% capacity | Zopos (10 Zo dajustable) - X Z stilligs | | |
| Model | Charging Current (max.) | 1A | 2A | 2A | | |
| | | IA . | | ZA ZA | | |
| | Charging Voltage | 273 VDC ± 1% | | | | |
| | Battery Type | | Depending on the capacity of external batterie | S | | |
| Long-run | Numbers | | | | | |
| Model | Charging Current (max.) | 4A | 4A | 4A | | |
| | Charging Voltage | | 273 VDC ± 1% | | | |
| INDICATOR | S | | | | | |
| LCD Display | | UPS status, Load level, E | Battery level, Input/Output voltage, Discharge t | imer, and Fault conditions | | |
| ALARM | | | | | | |
| Battery Mode | e | Sounding every 4 seconds | | | | |
| Low Battery | | Sounding every second | | | | |
| Overload | | Sounding twice every second | | | | |
| Fault | | | Continously sounding | | | |
| PHYSICAL | | | | | | |
| Standard | Dimension, D x W x H (mm) | UPS: 668x438x266 [6U] Battery pack : 580x438x133 [3U] | UPS: 668 x 438 x 266 [6U] Battery pack : 580x438x133 [3U] x 2 pcs | UPS: 668 x 438 x 266 [6U] Battery pack : 580 x 438 x 133[3U] x 2 pcs | | |
| Model | Net Weight (kgs) | UPS unit: 42 Battery pack: 63 | UPS unit: 45 Battery pack: 63 x 2 pcs | UPS unit: 45 Battery pack: 63 x 2 pcs | | |
| Long-run | Dimension, D x W x H (mm) | 668 x 438 x 266 [6U] | 668 x 438 x 266 [6U] | 668 x 438 x 266 [6U] | | |
| Model | Net Weight (kgs) | 42 | 45 | 45 | | |
| ENVIRONM | | | | | | |
| Operating Humidity | | | 0-95 % RH @ 0- 40°C (Non-condensing) | | | |
| Noise Level | • | Less than 60dB @ 1 Meter | | dB @ 1 Meter | | |
| MANAGEME | FNT | , | | | | |
| Smart RS-23 | | Supports Window | s [®] 2000/2003/XP/Vista/2008, Windows [®] 7/8/1 | 0. Linux and MAC | | |
| Optional SNI | | | management from SNMP manager and web b | | | |
| * L means lone | | Powel | management nom Sivivir managet and web t | JOWSE! | | |

^{*} L means long-run model



^{**}When using internal batteries from 18-19, the unit will de-rate according to below formula: P = PRating x N/20.

Product specifications are subject to change without further notice.

Galleon II 3P/3P





DSP technology guarantees high reliability

A Digital Signal Processor (DSP) technology digitizes the data and mathematically manipulates them to provide an improved solution with higher performance.

• Output power factor 1 (Only for 10K-80K)

For critical applications, this 3-phase online UPS with output power factor 1.0 ensures higher efficiency and advanced performance. * Power Factor 0.9 only for 100K-200K models

Active power factor correction in all phases

Power factor correction is active in all phases and it can improve the efficiency of input.

Dual Inputs

Galleon II 33 series is also available for optional dual inputs to support various inputs to have flexibility for system configuration.

50Hz/60Hz frequency converter mode

Lock output frequency at 50Hz or 60Hz to suit power sensitive equipments.

ECO mode operation for energy saving

ECO mode improves the efficiency up to 98% to cut energy usage & cost. In this mode, loads are supplied by the mains directly. While mains failure, the UPS will constantly supply the power to the connected device without any interruption.

Emergency power off function (EPO)

In case of any emergency and fire, the EPO control mechanism can instantly shut down the system.

Adjustable charging current

Users can adjust charging current via LCD setting based on applications.

Very powerful charger

Galleon II 33 series is built-in 12A charger for 10K-40KVA models and 24A for 60K/80KVA models. It's to support very long runtime applications when connecting to big capacity of external battery cabinet.

Optional parallel operation with common battery

The system can be operated in parallel, increasing the capacity and performance. Besides, this parallel UPS system can share common battery packs which might greatly reduce the expense and reach the same performance.

| Model | Galleon II 33 10K-80K | Galleon II 33 100K-200K |
|---------------------|-----------------------|-------------------------|
| Max. parallel units | 3 | 2 |

High overload capability

Supporting 110% overload capacity for 60 min and up to 1 min overload condition at 150% load.

Adjustable battery design

The number of connected batteries can be adjusted flexibly based on different power demands. This feature can allow UPS to keep running even when some battery packs are damaged.

Optional 4.3" touch LCD for Galleon II 33 10K-80K models



Galleon II 3-phase in/3-phase out Online UPS Selection Guide

| MODEL | | 10K (L)* | 15K(L) | 20K (L)* | 30K (L)* | 40K (L) | 60KL | 80KL | 100KL | 120KL | 160KL | 200KL |
|------------|--|--------------------------------|----------------------|----------------------|-------------------------------|----------------------------|------------------|------------------------------|------------------|------------------------------|---------------------------------|------------------|
| PHASE | | | | | | 3-pha | ase in / 3-pha | se out | | | | |
| CAPACIT | <i>(</i> | 10KVA / 10KW | 15KVA / 15KW | 20KVA / 20KW | 30KVA / 30KW | 40KV / 40KW | 60KVA / 60KW | 80KVA / 80KW | 100KVA / 90KW | 120KVA/ 108KW | 160KVA/ 144KW | 200KVA/ 180KW |
| PARALLE | L CAPABILITY | | | up to | 3 units in pa | arallel | | | | up to 2 unit | ts in parallel | |
| INPUT | | | | | | | | | | | | |
| Nominal \ | /oltage | | | | | 3 x | 400 VAC (3P | h+N) | | | | |
| Voltage R | ange | | | | C (3-phase) (C (3-phase) (| | | | | | hase) @ 70% hase) @ 100° | |
| Frequenc | y Range | | | 46~ | 54 Hz or 56~6 | 64Hz | | | | 40~ | 70Hz | |
| Power Fa | ctor | | | | | ≧ 0 | .99 @ 100% | Load | | | | |
| OUTPUT | | | | | | | | | | | | |
| Output Vo | ltage | | | 3 x 360*/38 | 30/400/415 V | AC (3Ph+N) | | | 3 | x 380/400/41 | 5 VAC (3Ph+ | ·N) |
| AC Voltag | e Regulation (Batt. Mode) | | | | | | ± 1% | | | | | |
| Frequency | Range (Synchronized Range) | | | | | 46~ | 54Hz or 56~ | 64Hz | | | | |
| Frequenc | y Range (Batt. Mode) | | | | | 50 Hz ± 0 | .1 Hz or 60 H | lz ± 0.1 Hz | | | | |
| Current C | rest Ratio | | | | | | 3:1 (max.) | | | | | |
| Harmonic | Distortion | | | | THD (Linear THD (Non-line | | | | ≦ | ≦ 2 % THD (N ≦ 4 % THD (N | (Linear Load) Ion-linear Loa | ; ad) |
| Transfer | AC Mode to Batt. Mode | | | | | | Zero | | | | | |
| Time | Inverter to Bypass | | | | | | Zero | | | | | |
| Waveform | (Batt. Mode) | | Pure Sine wave | | | | | | , | | | |
| Overload | AC Mode | | 100-110% fo | or 60 min, 110 | 0-125% for 10 | 0 min, >150% | immediately | , | | | 111-125% for n, >150% for | |
| | Battery Mode | | 100-110% fo | or 60 min, 110 | 0-125% for 10 | 0 min, >150% | immediately | , | | | 111-125% for n, >150% for | |
| EFFICIEN | ICY | 1 | | | | | | | | | | |
| AC Mode | | | | | 95.5% | | | | | | .0% | |
| ECO Mod | | | | | | | | | | | | |
| Battery M | | | | | 94.5% | | | 93.0% | | | | |
| BATTER | | 40.1/17.41 | 40.140.41 | 40.1//0.41 | 40.1//7.41 | 40.1/0.41 | | | | | | |
| | Battery Type Numbers | 12 V/7 Ah (10+10) | 12 V/9 Ah (16+16) | 12 V/9 Ah (16+16) | 12 V/7 Ah (16+16) pcs | 12 V/9 Ah s x 2 strings | | | | | | |
| Standard | | pcs | pcs | pcs | | | | | | | | |
| Model | Typical Recharge Time | | | ecover to 909 | | | | | N | I/A | | |
| | Charging Current (max.) Charging Voltage | +/-136.5 | IA. | +/-218 V | DC ± 10% | | | | | | | |
| | | VDC ± 10% | | | | Danand | ing on the on | nlications | | | | |
| | Battery Type | 00 | | | | Depend | ing on the ap | | | | | |
| Long-run | Numbers | 20 pcs | 44 | 404 (4 -154 | | | 1 | (Adjustable) | 244 | 204 | 404 | 404 |
| Model | Charging Current (max.) | +/-136.5 | 1A~ | 12A (Adjust | - | | | Adjustable) | 24A | 32A | 40A | 48A |
| INDICATO | Charging Voltage | VDC ± 10% | | | +/-13.65V x | N (N=16~20) | | | | +/- 13.7V x N | N (N = 16~20 |) |
| | | UPS | status, Load | level, Batten | / level, Input/0 | Output voltar | e. Discharge | timer. | | | | |
| LCD Disp | lay | | | | fault conditi | | . , | , | | 10" Touch Ty | pe color LCE |) |
| PHYSICA | L | | | | | | | | | | | |
| Standard | Dimension,DxWxH (mm) | 6 | 26 x 250 x 75 | 50 | 815 x 30 | 00 x 1000 | | | | I/A | | |
| Model | Net Weight (kgs) | 124 | 10 | 39 | 225 | 250 | | | ŗ | w/1 | | |
| Long-run | Dimension,DxWxH (mm) | 6 | 26 x 250 x 75 | 50 | 815 x 30 | 00 x 1000 | 790 x 3 | 60 x 1010 | 940 x 56 | 67 x 1015 | 1040 x 5 | 67 x 1452 |
| Model | Net Weight (kgs) | 28 | 4 | 3 | 60 | 61 | 108 | 113 | 194 | 229 | 306 | 340 |
| ENVIRON | IMENT | | | | | | | | | | | |
| Operation | Temperture | | | | | | 0-40°C | | | | | |
| Operation | Humidity | | | | | < 95% | and non-cor | dersing | | | | |
| Noise Lev | - | Less than 55dB @ 1 Meter | | 58dB @1 eter | Less than 65dB @1 Meter | Less tha | n 70dB@ leter | Less than 75dB@1 Meter | | n 70dB @ leter | | n 73dB @ eter |
| MANAGE | MENT | | | | | | | | | | | |
| Smart RS | -232 / USB | | | Support | s Windows® 2 | 2000/2003/X | P/Vista/2008 | , Windows® 7 | /8/10, Linux | and MAC | | |
| Optional S | SNMP | | | | Power ma | nagement fro | om SNMP ma | nager and we | eb browser | | | |
| *If output | voltage is set as 3 x 360VA0 | the cutout | namer of the | unit will bo d | a rated to 000 | 2/ | | | | | | |

^{*}If output voltage is set as 3 x 360VAC, the output power of the unit will be de-rated to 90%. Product specifications are subject to change without further notice.

Giant Elite 1P/1P



- Galvanic isolation design to withstand all kinds of loads
- Output power factor 0.8
- Fully coating PCBAs to withstand harsh environment
- Unique ventilation design for effective heat dissipation
- Wide input voltage and frequency range to withstand robust environment
- High short-circuit and overload capabilities
- Built-in maintenance bypass switch

Giant Elite 1-phase in/1-phase out Online UPS Selection Guide

| MODEL | | Giant Eli | te 6K(L) | Giant Elit | e 7.5K(L) | Giant Eli | te 10K(L) | | | |
|------------------------|----------------------------|--|-------------------------|-------------------------------|---|---------------------------|---------------|--|--|--|
| PHASE | | | | Single phase | with ground | | | | | |
| CAPACITY* | | 6KVA/ | 4.8KW | 7.5KV | A/6KW | 10KV | V8KW | | | |
| NPUT | | | | | | | | | | |
| Nominal Volt | tage | | | 208VAC/220 | VAC/230VAC | | | | | |
| /oltage Ran | ge | 165VAC ~ 285VAC @ 16 pcs of batteries ; 185VAC ~ 285VAC @ 18 pcs of batteries | | | | | | | | |
| requency | - | 40 Hz ~ 55 Hz @ 50Hz system ; 56 Hz ~ 64 Hz @ 60Hz system | | | | | | | | |
| OUTPUT | | | | | | • | | | | |
| Output Volta | ige | 208VAC/220VAC | | | | | | | | |
| oltage Reg | - | | | ± ′ | 1% | | | | | |
| | Range (Synchronized Range) | | | 45Hz ~ 55 Hz o | r 56 Hz ~ 64 Hz | | | | | |
| | Range (Batt. Mode) | | | 50 Hz ± 0.1 Hz (| | | | | | |
| urrent Cres | | | | 3 | | | | | | |
| larmonic Di | | | ≤ 3 ' | % THD (Linear Load) ; ≦ | | Load) | | | | |
| ransfer | AC to DC | | | | ero | | | | | |
| ime | Inverter to Bypass | | | Ze | | | | | | |
| Vaveform (E | | | | Pure Si | | | | | | |
| FFICIENC | | | | . die oi | | | | | | |
| C Mode | | | | 88. | 3% | | | | | |
| attery Mode | е . | | | 92 | | | | | | |
| ATTERY | - | | | 32 | | | | | | |
| ATTER | Battery Type | 12V / 9Ah | | | | | | | | |
| | Battery Numbers** | 16 pcs | | | | | | | | |
| Standard Model | Recharging Time | | | 6 hours recover | | | | | | |
| | Charging Current (max.) | | | 2 | | | | | | |
| | Charging Voltage | | | | | | | | | |
| | Battery Type | 218.4 V ± 1% Depending on the applications | | | | | | | | |
| H | Numbers | 16 pcs | 18 pcs | 16 pcs | 18 pcs | 16 pcs | 18 pcs | | | |
| ong-run lodel | Charging Current (max.) | 10 pcs | 10 pcs | Default :8 A; 2A/4 | | 10 pcs | 16 pcs | | | |
| | | 218.4 V ± 1% | 245.7 V ± 1% | 218.4 V ± 1% | 245.7 V ± 1% | 218.4 V ± 1% | 245.7 V ± 1% | | | |
| NDICATOR | Charging Voltage | 210.4 V ± 170 | 243.7 V ± 170 | 210.4 V ± 170 | 243.7 V ± 176 | 210.4 V ± 176 | 245.7 V ± 176 | | | |
| CD | | 110 | S status load lovel b | pattery level, input/outpu | t voltage and frequency | , fault and /warning or | udo. | | | |
| LARM | | Ur Ur | S status, load level, b | attery lever, iripul/outpu | t voltage and frequenc | y, rault code/warriing co | iue . | | | |
| attery Mode | • | | | Counding ou | ani 4 accondo | | | | | |
| ow Battery | е | Sounding every 4 seconds Sounding every second | | | | | | | | |
| ow ballery overload | | | | | | | | | | |
| ault | | | | Continousl | e every second | | | | | |
| HYSICAL | | | | Continousi | y sounding | | | | | |
| | Dimensional DelMed Learn | | | F00 01 | 20 000 | | | | | |
| tandard lodel | Dimensions, DxWxH (mm) | 106 | | 562 x 30 | | 130 | 138 | | | |
| | Net Weight (Kgs) | 106 | 114 | 122 | 130 | 130 | 138 | | | |
| ong-run lodel | Dimensions, DxWxH (mm) | | | 592 x 25 | | l | <u> </u> | | | |
| | Net Weight (Kgs) | 6 | ۷ | | 0 | 8 | 0 | | | |
| NVIRONM | | | 0 5000 0 | and the scale of the scale of | | ih 05°C) | | | | |
| - | emperature | | U ~ 50°C (batt | tery life cycle will be sho | <u>.</u> | is above 25°C) | | | | |
| perating H | umiaity | | | < 95 % and no | | | | | | |
| oise Level | | | | Less than 60d | BA@1 Meter | | | | | |
| IANAGEME | | | | | | | | | | |
| mart RS-23 | | | | dows 2000/2003/XP/Vis | | | | | | |
| ry Contact | | | | | • | | | | | |
| optional SNI | MD | Five signals: AC failure, low battery, UPS alarm, bypass and UPS fault Power management from SNMP manager and web browser | | | | | | | | |

^{**}Battery number is set in factory and can't be changed by users. Product specifications are subject to change without further notice.

Giant Elite 3P/1P



- Galvanic isolation design to withstand all kinds of loads
- Output power factor 0.8
- Fully coating PCBAs to withstand harsh environment
- Unique ventilation design for effective heat dissipation
- Wide input voltage and frequency range to withstand robust environment
- High short-circuit and overload capabilities
- Built-in maintenance bypass switch

Giant Elite 3-phase in/1-phase out Online UPS Selection Guide

| MODEL | | Giant Elite | e 31-6K(L) | Giant Elite | 31-7.5K(L) | Giant Elite | 31-10K(L) | | |
|------------------|----------------------------|---|--------------------------|----------------------------|-------------------------|--------------------------|-----------------|--|--|
| PHASE | | | | 3-phase in / | 1-phase out | | | | |
| CAPACITY* | | 6KVA/ | 4.8KW | 7.5KV/ | V6KW | 10KV/ | A/8KW | | |
| INPUT | | | | ' | | | | | |
| Nominal Volt | tage | | | 3 x 360VAC/380VAC/4 | 100VAC (3Ph + N + G) | | | | |
| Voltage Ran | ige | 286VAC ~ 493VAC @ 16 pcs of batteries ; 320VAC ~ 493VAC @ 18 pcs of batteries | | | | | | | |
| Frequency | <u> </u> | 40 Hz ~ 55 Hz @ 50Hz system ; 56 Hz ~ 64 Hz @ 60Hz system | | | | | | | |
| OUTPUT | | | | | | ., | | | |
| Output Volta | age | | | 208VAC/220VAC/2 | 30VAC (Selectable) | | | | |
| /oltage Reg | - | 208VAC/220VAC(230VAC (Selectable) ± 1% | | | | | | | |
| | Range (Synchronized Range) | | | 45Hz ~ 55 Hz o | | | | | |
| | Range (Batt. Mode) | | | 50 Hz ± 0.1 Hz o | | | | | |
| Current Cres | | | | 3: | | | | | |
| Harmonic Di | | | < 2 0 | 6 THD (Linear Load) ; ≦ | | · Load) | | | |
| | AC to DC | | ⇒ 3 / | Ze | | Loau) | | | |
| Transfer Time | | | | Ze | | | | | |
| | Inverter to Bypass | | | | | | | | |
| Waveform (E | | | | Pure Si | newave | | | | |
| EFFICIENC | T | | | | 0/ | | | | |
| AC Mode | | | | 83 | | | | | |
| Battery Mod | e | | | 92 | % | | | | |
| BATTERY | | | | | | | | | |
| | Battery Type | 12V / 9Ah | | | | | | | |
| Standard | Battery Numbers** | 16 pcs | | | | | | | |
| Model | Recharging Time | | | 6 hours recover | | | | | |
| | Charging Current (max.) | | | 2 | | | | | |
| | Charging Voltage | | | 218.4 | / ± 1% | | | | |
| | Battery Type | Depending on the applications | | | | | | | |
| _ong-run | Numbers | 16 pcs | 18 pcs | 16 pcs | 18 pcs | 16 pcs | 18 pcs | | |
| Model | Charging Current (max.) | | | Default :8 A; 2A/4 | A/8A(Adjustable) | | | | |
| | Charging Voltage | 218.4 V ± 1% | 245.7 V ± 1% | 218.4 V ± 1% | 245.7 V ± 1% | 218.4 V ± 1% | 245.7 V ± 1% | | |
| INDICATOR | es . | | | | | | | | |
| _CD | | UF | S status, load level, ba | attery level, input/output | t voltage and frequency | y, fault code/warning co | ode | | |
| ALARM | | | | | | | | | |
| Battery Mod | le | | | Sounding eve | ery 4 seconds | | | | |
| Low Battery | | Sounding every second | | | | | | | |
| Overload | | Sounding twice every second | | | | | | | |
| Fault | | | | Continous | y sounding | | | | |
| PHYSICAL | | | | | | | | | |
| Standard | Dimensions, DxWxH (mm) | 592 x 300 x 826 | 592 x 360 x 826 | 592 x 300 x 826 | 592 x 360 x 826 | 592 x 300 x 826 | 592 x 360 x 826 | | |
| Model | Net Weight (Kgs) | 129 | 137 | 152 | 160 | 160 | 168 | | |
| Long-run | Dimensions, DxWxH (mm) | | | 592 x 30 | 00 x 826 | | | | |
| Model | Net Weight (Kgs) | 8 | 4 | 10 |)7 | 1 | 15 | | |
| ENVIRONM | | | | | | | | | |
| Operating Te | emperature | | 0 ~ 50°C (batte | ery life cycle will be sho | rten when temperature | is above 25°C) | | | |
| Operating H | | | | < 95 % and no | | | | | |
| Noise Level | | | | Less than 60d | | | | | |
| MANAGEMI | ENT | | | | | | | | |
| Smart RS-23 | | | Supports Wind | lows 2000/2003/XP//is | ta/2008/7/8/10 Linux | Unix, and MAC | | | |
| | | Supports Windows 2000/2003/XP/Vista/2008/7/8/10, Linux, Unix, and MAC Power management from SNMP manager and web browser | | | | | | | |
| Optional SN | MP I | | Power | management from CNIN | | | | | |

Battery number is set in factory and can't be changed by users. Product specifications are subject to change without further notice



Giant Elite 3P/3P



- DSP technology guarantees high reliability
- Galvanic isolation design to withstand all kinds of loads
- Output power factor 0.8
- Fully coating PCBAs to withstand harsh environment
- Unique ventilation design for effective heat dissipation
- Adjustable battery numbers
- Reverse phase frequency operation and supports non-neutral
- Supporting heavy duty equipment, half-wave type of load

Giant Elite 3-phase in/3-phase out Online UPS Selection Guide

| MODEL | <u> </u> | - Oi Flit- 0/0 00K | Olant Files 2/2 40K | | | |
|-----------------------------------|----------------------|---|--|--|--|--|
| MODEL | | Giant Elite 3/3 20K | Giant Elite 3/3 40K | | | |
| PHASE | | 3-phase in/3 | · | | | |
| CAPACITY | | 20KVA/16KW | 40KVA/32KW | | | |
| INPUT | | | | | | |
| Nominal Voltage | | 3 x 380VAC (3Ph + | · · · · · · · · · · · · · · · · · · · | | | |
| Acceptable Voltag | ge Range | 165VAC ~ 280VAC (Ph-N); | <u>:</u> | | | |
| Frequency | | 50 Hz ± 5 Hz o | r 60 Hz ± 5 Hz | | | |
| INVERTER | | | | | | |
| Nominal Voltage | | 3 x 220VAC/230VAC/2 | 240VAC (3Ph + N + G) | | | |
| Waveform | | Pure Si | newave | | | |
| Output Voltage | Steady state | ±1 | % | | | |
| Stability | Transient state | ±5 | 5% | | | |
| Frequency | | 50 Hz / | 60 Hz | | | |
| Frequency Stabilit | ity | ±1 | % | | | |
| Frequency Synchro | | ± 5Hz (Equal to byp | | | | |
| Frequency Synchro | | 1~2 | | | | |
| Power Factor | | 0. | | | | |
| Crest Factor | | 3: | | | | |
| Total Harmonic Dist | stortion (THDv) | < 2% (Linear Load) ; < | | | | |
| Dynamic in-rush \ | | 0%->100%->0% (R Load) <±5%; | , | | | |
| Dynamic Recovery | | 0%~100% RCD load ; <60 ms re | | | | |
| Transfer Time | Time (ill Grade) | 0 r | | | | |
| Overload Capabili | lity | 0% ~ 110% continuous running; 110% ~ 1 | | | | |
| Short-circuit Capa | · | 60~11 | | | | |
| | | < 5 | | | | |
| Transient Respon | ise time | \ | IIIS | | | |
| | | | (ODL - N - O) | | | |
| Connection Type | | Hardwire 5-wii | | | | |
| Input Voltage Range | | 176VAC ~ 264VAC (Ph-N); | · · · | | | |
| Overload/Short-circuit Capability | | 1.5 In~1.8 | | | | |
| | | 1.8 In ~ >2.0 In 30s~200ms | | | | |
| SYSTEM | 1 | | | | | |
| Efficiency | Line Mode | 90% | 91% | | | |
| | Battery Mode | 91% | 92% | | | |
| ECO Mode (Non-pa | arallel models) | Yes | | | | |
| EPO Function | | Ye | es | | | |
| BATTERY & CHA | ARGER | | | | | |
| | Туре | 6 pt | ulse | | | |
| | Rated output voltage | 384 | VDC | | | |
| Rectifier | Charger voltage | 395 VDC ~ 435 \ | /DC (adjustable) | | | |
| | Charging current | Maximum=Capacity (KW)/Battery voltage (real-time) *The maximum current is never higher than 40A. | Maximum 40A, 5A @ full load | | | |
| | Туре | Support VF | RLA Battery | | | |
| Battery | Numbers | 32 pcs (29 ~ 3 | | | | |
| , | Cold Start | Ye | | | | |
| PHYSICAL | | | | | | |
| IP Protection | | IP: | 20 | | | |
| Dimensions, D x W | 'x H (mm) | 557 x 360 x 898 | 680 x 450 x 1130 | | | |
| Net Weight (Kgs) | | 180 | 275 | | | |
| ENVIRONMENT | | | | | | |
| Operating Temper | rature | 0~ 35°C continuous running, 40°C 8-hour running at nomina linput voltage, recharging batteries and no overload, | | | | |
| | | 45°C derating to 85% with linear load | | | | |
| Operating Humidi | | | | | | |
| Operating Humidi | | 0~90% (non- | | | | |
| MANAGEMENT | ity | 0~90% (non- | -condensing) | | | |
| MANAGEMENT Modbus RS-232/F | ity | 0~90% (non- Supports Windows* 2000/2003/XP. | -condensing) /Vista/2008/7/8/10, Linux and MAC | | | |
| MANAGEMENT | ity | 0~90% (non- | -condensing) /Vista/2008/7/8/10, Linux and MAC nd 2 inputs | | | |

Giant 3P/1P



- Online double-conversion
- DSP technology guarantees high reliability
- True galvanic isolation transformer design
- Control designed to withstand all kinds of loads
- Independent ventilation enhance durable operation under harsh environment
- Adjustable battery numbers
- Accept dual-mains input
- Parallel operation with up to 4 units (option)
- Variety of communication options available
- Reverse phase sequence operation and No neutral operation

Giant 3P/1P 384VDC (220VDC Option) Online UPS Selection Guide

| MODEL | | Giant 31-10K | Giant 31-15K | Giant 31-20K | Giant 31-30K | Giant 31-40K | | | |
|--|--------------------------------|--|---------------------------------------|---|---------------------------|----------------------|--|--|--|
| CAPACITY | | 10 KVA / 8 KW | 15 KVA / 12 KW | 20 KVA / 16 KW | 30 KVA / 24 KW | 40 KVA / 32 KW | | | |
| INPUT | | | | | | | | | |
| Nominal Voltage | | | 3 x 380V | AC/400VAC (3Ph + N or 3P | h + N + G) | | | | |
| Acceptable Volta | ige Range | | | 285VAC ~ 475VAC | | | | | |
| Frequency | | | | 50Hz/60Hz ±5 Hz (±10%) | | | | | |
| INVERTER | | | | | | | | | |
| Nominal Voltage | | | 220\ | /AC/230VAC/240VAC (Adju | stable) | | | | |
| Waveform | | Pure Sinewave | | | | | | | |
| Output Voltage | Steady state | | ±1% | | | | | | |
| Stability | Transient state | | | ±5% | | | | | |
| Frequency | | | | 50 Hz / 60 Hz | | | | | |
| Frequency Stabi | lity | | | ± 1% | | | | | |
| Frequency Synchr | onisation Range | | ± 5H | z (Equal to bypass working | range) | | | | |
| Frequency Synchr | onisation Speed | | | 1~2 Hz/s | | | | | |
| Power Factor | · | | | 0.8 | | | | | |
| Crest Factor | | | | 3:1 | | | | | |
| Total Harmonic Di | stortion (THDv) | | < 2% (L | inear Load) ; < 5% (Non-lin | ear Load) | | | | |
| Dynamic in-rush | | | · · · · · · · · · · · · · · · · · · · | Load) <±5%; 20%->100% | | | | | |
| Dynamic Recovery | | | | oad; <60 ms recover to 90% | | | | | |
| Transfer Time | , , | | | 0 ms | | | | | |
| Overload Capabi | ility | | 0% ~ 110% continuous run | ning; 110% ~ 150% for 10 r | nin~1 min; >160% for 200n | 18 | | | |
| Short-circuit Cap | | | | 60~100ms | | | | | |
| Transient Respo | | | | < 5ms | | | | | |
| BYPASS | | | | | | | | | |
| Connection Type | <u> </u> | | | Hardwire 3-wire (1Ph+N+C | 3) | | | | |
| Input Voltage Ra | | | | 220VAC ± 25% | <u>'</u> | | | | |
| | | | | 1.5 ln~1.8 ln 1h~30s | | | | | |
| Overload Capabi | ility/Short-circuit Capability | | | 1.8 ln ~ >2.0 ln 30s~200m | ns | | | | |
| SYSTEM | | I. | | | <u>-</u> | | | | |
| Efficiency (@ line | ear load) | | | ≧ 90% | | | | | |
| ECO Mode (Non-p | | Yes | | | | | | | |
| EPO Function | , | Yes | | | | | | | |
| Standard | | IEC 61000-4-5 Protection surge, IEC 62040-2 EMC/EMI, IEC62040-1 Safety | | | | | | | |
| BATTERY & CH | ARGER | | | 3., | , | | | | |
| | Туре | 6 pulse | | | | | | | |
| | Rated output voltage | 384 VDC | | | | | | | |
| Rectifier | Charger voltage | | 1! | 90VDC ~ 435VDC (Adjustal | ole) | | | | |
| | Charging current(max) | Default 10 | A, Maximum=Capacity/Bat | | | um 40A, 5A@Full load | | | |
| | Type | | | Support VRLA Battery | | | | | |
| Battery | Numbers | | | 32 pcs (29 ~ 32 adjustable |) | | | | |
| ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | Cold Start | | | Yes | • | | | | |
| PHYSICAL | | | | | | | | | |
| IP Protection | | | IP | 20 (Default), IP21/IP31 (Op | tion) | | | | |
| Dimensions, D x V | V x H (mm) | | | 105 x 817 | · · | 821 x 432 x 1159 | | | |
| Net Weight (Kgs | | 118 | 120 | 145 | 193 | 278 | | | |
| ENVIRONMENT | | | | | | | | | |
| Operating Tempe | | 0~ 35°C contin | | running at nomina linput vo C derating to 85% with linea | | and no overload, | | | |
| Operating Humic | dity | | | 0~90% (non-condensing) | | | | | |
| Noise Level | | | | Less than 70dB @ 1 Mete | r | | | | |
| MANAGEMENT | | | | | | | | | |
| Modbus RS-232 | | | Supports Windows® | 2000/2003/XP/Vista/2008/ | 7/8/10, Linux and MAC | | | | |
| Dry Contacts | | Supports Windows® 2000/2003/XP/Vista/2008/7/8/10, Linux and MAC 6 outputs and 2 inputs | | | | | | | |
| Optional SNMP | | | Power manage | | and web browser | | | | |
| Optional SNMP Power management from SNMP manager and web browser Product specifications are subject to change without further notice. | | | | | | | | | |



Giant 3P/3P



- Online double-conversion
- DSP technology guarantees high reliability
- True galvanic isolation transformer design
- Control designed to withstand all kinds of loads
- Intelligent battery management to prolong battery lifecycle
- Independent ventilation enhance durable operation under harsh environment
- Adjustable battery numbers
- Accept dual-mains input
- Parallel operation with up to 4 units (option)
- Varieties of communication options available
- Optional 7" touch LCD
- Reverse phase frequency operation and supports non-neutral input

Giant 3-phase in/3-phase out Online UPS Selection Guide

| MODEL | | Giant 10K | Giant 15K | Giant 20K | Giant 30K | Giant 40K | Giant 60K | Giant 80K | Giant 100K | Giant 120K | Giant 160K | Giant 200K |
|------------------------|-------------------|------------------|--|-------------------|--------------------|-------------------|---------------------------------|-------------------|--------------------|---------------------|--------------------|--------------------|
| CAPACITY | | 10 KVA / 8 KW | 15KVA / 12KW | 20 KVA / 16 KW | 30 KVA / 24 KW | 40 KVA / 32 KW | 60 KVA / 48 KW | 80 KVA / 64 KW | 100 KVA / 80 KW | 120 KVA / 96KW | 160 KVA / 128KW | 200 KVA / 160KW |
| INPUT | | | , | • | , | • | • | • | | | | |
| Nominal Volta | age | | | | | 3 x 380\ | /AC/400VAC (| 3Ph + N) | | | | |
| Acceptable V | oltage Range | | | | | 28 | 35VAC ~ 475V | AC | | | | |
| Frequency | | | | | | | 0/60 Hz ± 10 | | | | | |
| INVERTER | | | | | | | | | | | | |
| Nominal Volta | age | | | | | 3 x 380\ | /AC/400VAC (| 3Ph + N) | | | | |
| Precision | | | | | Т | ransitory: ±5% | Stationary: ±16 (load variation | | %) | | | |
| Frequency | | | 50/60 Hz synchronised ±1 % With mains absent ±0.1 Hz | | | | | | | | | |
| Max. Synchron | nization Speed | | | | | | ±1 Hz/s | | | | | |
| Waveform | | | Pure Sinewave | | | | | | | | | |
| Total Harmon (THDv) | nic Distortion | | | | | <2% (Linear L | oad) ; <5% (N | on-linear Load | i) | | | |
| Phase Displa | cement | | 120° ±1% (balanced load) ; 120° ±2% (imbalances 50% of the load) | | | | | | | | | |
| Dynamic Rec | covery Time | | | | | 3 cycles a | t 90 % of the | static value | | | | |
| Admissible O | verload | | | | 110% | for 10min; 15 | 50% for 60sec | ; >160% for 2 | .00ms | | | |
| Admissible C | rest Factor | | | | | | 3:1 | | | | | |
| Admissible Po | ower Factor | | | | | 0.6~1 (i | nductive or ca | pacitive) | | | | |
| Imbalance Ou | utput Voltage | | | | | | <1% | | | | | |
| @ 100% Unb | palanced Load | | | | | | | | | | | |
| Current Limit | | | High overload, short-circuit: RMS Voltage Limit High Crest-Factor current: Peak Voltage Limit | | | | | | | | | |
| STATIC BYPA | ASS | | | | | | | | | | | |
| Туре | | | Solid state | | | | | | | | | |
| Voltage | | | 3 x 380VAC/400VAC (3Ph + N) | | | | | | | | | |
| Frequency | | | | | | | 50/60 Hz | | | | | |
| Activation Cri | iterion | | | | | Micr | oprocessor co | ontrol | | | | |
| Transfer Time | Э | | | | | | Zero | | | | | |
| Admissible O | verload | | | | 1509 | 6 for 1 hour; 1 | 80% for 30sec | c; >200% for 2 | 00ms | | | |
| Transfer to By | ypass | | | | | Immediate, | for overloads | above 160% | | | | |
| Retransfer | | | | | | Autom | atic after aları | m clear | | | | |
| MAINTENAN | ICE BYPASS | | | | | | | | | | | |
| Туре | | | | | | Wi | thout interrupt | tion | | | | |
| Voltage | | | | | | 3: | x 400V (3Ph + | N) | | | | |
| Frequency | | | | | | | 50/60 Hz | | | | | |
| | ine Mode | 8 | 9% | 9 | 0% | 9 | 1% | | | 92% | | |
| Efficiency B | Battery Mode | 9 | 0% | 9 | 1% | 92 | 2% | | | 93% | | |
| BATTERY & | CHARGER | | | | | | | | | | | |
| Battery Type | and Numbers | | | | | 12VDC x 32 | pcs (29~32 pc | cs adjustable) | | | | |
| Nominal Batte | ery Voltage | | | | | 384 VDC (I | Based on 32p | cs batteries) | | | | |
| Charging Met | thod | CC/CV | | | | | | | | | | |
| Precision | | | | | | | ±1% | | | | | |
| Charging Cur | rrent | | ault 10A, *Maxin y(KW)/Battery (r | | | | Default | t 10A; Maximu | ım 40A; 5A@ | full load | | |
| Charging Volt | tage | | | | | 432 VDC (I | Based on 32p | cs batteries) | | | | |
| PHYSICAL | | | | | | | | | | | | |
| Dimensions, D | x W x H (mm) | | 656 x 405 x 81 | 7 | 656 x 405 x 941 | 821 x 43 | 32 x 1159 | 975 x 55 | 4 x 1286 | 975 x 554 x 1326 | 1051 x 7 | 05 x 1646 |
| Net Weight (K | (gs) | 118 | 120 | 145 | 193 | 278 | 365 | 471 | 573 | 650 | 760 | 840 |
| | n current is neve | r higher than 4 | 10A. | | | | | | | | | |

Product specifications are subject to change without further notice.

Arena



True double-conversion

Arena series is applied online double conversion technology to effectively insulate against network disturbances and enable higher load uptime.

Modular connector box with hot-swappable design for ease of power expansion, installation and maintenance

Arena is applied patented modular design to enhance the flexibility of power expansion and maintenance. By simply removing fours screws on the connector box, power module can be easily removed out from cabinet without disconnecting all wires. It also simplifies the process of maintenance and replacement to reduce the maintenance cost effectively.



Standard 19" form factor with tower/rack convertible design

Designed for easy adjustment, the vertical/horizontal conversion design enhances the flexibility and scalability of the modular UPS. 19" form factor suits for the standard rack so it optimizes cost expense to meet the power demands.



Parallel operation with common battery

Compared to general parallel system, multiple Arena UPSs can form a parallel power backup system by sharing common battery packs which might greatly reduce the expense and reach the same performance.

Adjustable battery design

The number of connected batteries can be adjusted flexibly based on different power demands.



This LCD display shows all information of each power module. It also can be set to display information of whole customized system.

DSP technology guarantees high reliability

A Digital Signal Processor (DSP) technology digitizes the data and mathematically manipulates them to provide an improved solution with higher performance.

Output power factor 1.0

For critical applications, the modular UPS with output power factor 1.0 ensures higher efficiency and advanced performance.

• 50Hz/60Hz frequency converter mode

Lock output frequency at 50Hz or 60Hz to suit power sensitive equipments.

ECO mode operation for energy saving

ECO mode improves the efficiency up to 97% to cut energy usage & cost. In this mode, loads are supplied by the mains directly. While mains failure, the UPS will constantly supply the power to the connected device without any interruption.

Emergency power off function (EPO)

In case of any emergency and fire, the EPO control mechanism can instantly shut down the system.

Generator compatible

This UPS can accept generator as power source and still convert perfect power to the connected loads.

Customized system

Multiple Arena UPSs can easily form a complete system based on customer's demand. Please contact sales directly for the details.



| Customized system | | | | | | | | |
|--------------------------|-----|---|---|--|--|--|--|--|
| Cabinet Height | 17U | | | | | | | |
| Number of power module | 4 | 2 | 1 | | | | | |
| Number of battery module | 0 | 2 | 3 | | | | | |

^{*}This customized system will be embedded 1U centralized communication unit.



Arena Online UPS Selection Guide

| MODEL | | Arena 3/3-10K | Arena 3/1-10K | Arena 1/1-10K | Arena 2/2-6K LV | Arena 3/3-10K LV | | | | | |
|---|--------------------------|--|---|---|---|---|--|--|--|--|--|
| PHASE | | 3 phase in / 3 phase out | 3 phase in / 1 phase out | 1 phase in / 1 phase out | 2 phase in / 2 phase out | 3 phase in / 3 phase out | | | | | |
| CAPACIT | Υ | 10000 VA / 10000 W | 10000 VA / 10000 W | 10000 VA / 10000 W | 6000 VA / 6000 W | 10000 VA / 8000 W | | | | | |
| PARALLI | EL CAPABILITY | 10 | 10 | 10 | 10 | 10 | | | | | |
| INPUT | | | | | | | | | | | |
| Nominal | Voltage | 3 x 360VAC/380VAC/ 400VAC/415VAC (3Ph+N+PE) | 3 x 360VAC/380VAC/ 400VAC/415VAC (3Ph+N+PE) | 208VAC/220VAC/230VAC /240VAC (1Ph+N+PE) | 100/200, 110/220, 120/208, 120/240, 127/220 VAC (2P+N+PE) | 3 x173VAC/190VAC/200VAC /208/220VAC (3Ph+N+PE) | | | | | |
| Voltage F | Range | 190-520 VAC (3-p 305-478 VAC (3-ph | hase) @ 50% load lase) @ 100% load | 110-300 VAC @ 50% load 176-276 VAC @ 100% load | 88-155 VAC (L-N) 152- 269 VAC (L-L) | 88-155 VAC (L-N) 152- 269 VAC (L-L) | | | | | |
| Frequenc | cy Range | | | 40 Hz ~ 70 Hz | | , | | | | | |
| Power Fa | actor | ≥ 0.99 @ 100% load | | | | | | | | | |
| THDi | | | < 4% @ full linear load | | | | | | | | |
| ОИТРИТ | | | | | | | | | | | |
| Output V | 'oltage | 360VAC/380VAC/400VAC/ 415VAC (3Ph+N) | 208*/220/230/240VAC (L+N) | 208*/220/230/240VAC (L+N) | 100/200, 110/220, 120/208, 120/240, 127/220 VAC (2Ph+N) | 173VAC/190VAC/200VAC (L+N) | | | | | |
| AC Volta (Batt. Mo | ge Regulation ode) | | | ± 1% | | | | | | | |
| Frequency (Synchror | y Range nized Range) | | | 46~54Hz or 56~64Hz | | | | | | | |
| Frequency Range (Batt. Mode) 50 Hz ± 0.1 Hz or 60 Hz ± 0.1 Hz | | | | | | | | | | | |
| Current Crest Ratio 3:1 (max.) | | | | | | | | | | | |
| Harmoni | c Distortion | | \leqq 2% THD (Linear Load) ; \leqq 3% THD (Non-linear Load) | | | | | | | | |
| Transfer | AC Mode to Batt. Mode | | zero | | | | | | | | |
| Time | Inverter to Bypass | | | zero | | | | | | | |
| Waveform (Batt. Mode) Pure Sinewave | | | | | | | | | | | |
| EFFICIE | NCY | <u> </u> | | | | | | | | | |
| AC Mode | • | 94% | 94% | 93.5% | 91% | 92% | | | | | |
| ECO Mo | de | 97% | 97% | 97% | 97% | 97% | | | | | |
| Battery | At Full Load | 93% | 92.5% | 92% | 91% | 92% | | | | | |
| Mode | Peak | 93.5% | 93% | 92.5% | 91.5% | 92% | | | | | |
| BATTER | Y CHARGER | ı | | | Į. | | | | | | |
| Battery V | /oltage | | | ± 12V / 9 Ah | | | | | | | |
| Battery N | lumbers | 16 ~ 20 pcs (adjustable) x 2 | 16 ~ 20 pcs (adjustable) x 2 | 16 ~ 20 pcs (adjustable) x 2 | 8~10pcs (adjustable) x 2 | 8~10pcs (adjustable) x 2 | | | | | |
| Nominal | Voltage | +/-192V (12V x 32 pcs) | +/-192V (12V x 32 pcs) | +/-192V (12V x 32 pcs) | +/-96V (12V x 16 pcs) | +/-96V (12V x 16 pcs) | | | | | |
| Maximun | n Voltage | +/- 240V (12V x 40 pcs) | +/- 240V (12V x 40 pcs) | +/- 240V (12V x 40 pcs) | +/-120V (12V x 20pcs) | +/-120V (12V x 20pcs) | | | | | |
| Minimum | Voltage | +/-192V (12V x 32 pcs) | +/-192V (12V x 32 pcs) | +/-192V (12V x 32 pcs) | +/-96V (12V x 16pcs) | +/-96V (12V x 16pcs) | | | | | |
| Charging | Voltage | ± 218V | ± 218V | ± 218V | ± 109V | ± 109V | | | | | |
| Typical R | Recharging Time | | Ş | hours recover to 90% capacit | у | | | | | | |
| Charging | Current | | | ± 4A | | | | | | | |
| INDICAT | ORS | | | | | | | | | | |
| LCD/LED | Display | UF | S status, Load level, Battery le | evel, Input/Output voltage, Disc | charge timer, and Fault condition | ons | | | | | |
| PHYSIC | AL | | | | | | | | | | |
| Dimensio | n, D x W x H(mm) | | | 678 x 418 x 129 [3U] | | | | | | | |
| Net Weig | ght (kgs) | 20.5 | 20.5 | 20.5 | 17.6 | 21 | | | | | |
| ENVIRO | NMENT | | | | | | | | | | |
| Operatin | g Humidity | | 0-95 | % RH @ 0- 40°C (non-conder | nsing) | | | | | | |
| Noise Le | vel | Less than 55dB @ 1 Meter | Less than 55dB @ 1 Meter | Less than 55dB @ 1 Meter | Less than 58dB @ 1 Meter | Less than 58dB @ 1 Meter | | | | | |
| MANAG | EMENT | | | | | | | | | | |
| Smart R | S-232/USB | | Supports Windows® | 2000/2003/XP/Vista/2008/7/8 | 3/10, Linux and MAC | | | | | | |
| Optional | SNMP | | Power manage | ement from SNMP manager an | d web browser | | | | | | |
| | | nacity when the output voltage is | | | | | | | | | |

^{*}Derate capacity to 90% of capacity when the output voltage is adjusted to 208VAC. Product specifications are subject to change without further notice

+Power Modular UPS





High efficiency online double conversion technology

+Power is applied with online double conversion technology to reach its high performance over 94.5% at 50% load. It significantly reduces overall Total Cost of Ownership (TCO).

High scalability

DSP control provides an improved solution with high performance. Integrated with modular design and parallel technology, +Power simplifies future power expansion.

Unity output power factor

+Power delivers unity output power (kVA=kW) providing the maximum power capacity to mission critical loads. It satisfies the requirements of the latest servers and optimizes IT investment with every penny.

Modular design lowers MTTR

Modular design is applied in power module, STS module and battery module. It will simplify maintenance and replacement with low MTTR (Mean Time To Repair).

• N+1 or N+X parallel redundancy for power guarantee

Scalable architecture allows you to optimize cost expense to meet power demands by vertically expanding in a single rack enclosure from 30KVA to 210KVA and achieve N+1 or N+X redundancy in the same rack. Supporting up to 420Kva system with 210Kva x2 in parallel operation





• Ease of installation and maintenance

Built-in maintenance bypass assures continuous power to critical loads during UPS maintenance. Besides, to facilitate installation and maintenance, all panel control and connectors are front accessibility.

Flexible battery configuration adapts different applications

Battery numbers can be adjusted flexibly. It will adapt different power demands and shorten system downtime. Battery voltage can be set from 32 to 40 pieces per string.

Highly reliable operation with redundant power supply in STS

+Power provides 2 power supplies in STS, ensuring no risk of shutdown.

User-adjustable charging current

+Power provides maximum 8A or 6A charging current for every power module and it's user-adjustable based on requirement.

High overload capability

+Power supports, 110% overload for 60 minutes, 125% for 10 minutes, and 150% for 1 minute.

• Graphic 5.7" LCD design for easy management

Designed for easy management, the intuitive design of 5.7" graphic LCD display enhances the the readability of identified and advanced configuration.

Optional 10" touch LCD panel



+Power 3P/3P 400V Modular UPS Selection Guide

| MODEL | +Power 30U-90HV | +Power 42U-120HV | +Power 30U-120HV +Power 30U-80-20KHV | +Power 30U-180HV +Power 30U-120-20KHV | +Power 42U-200-20KHV | +Power 42U-210HV | +Power 42U-300HV | | |
|----------------------------------|--|--|---|--|-------------------------|-------------------|------------------|--|--|
| PHASE | | | 3 | -phase in / 3-phase o | | | | | |
| CABINET CAPACITY* | 90 KW | 120 KW | 120 KW or 80 KW | 180 KW or 120 KW | 200 KW | 210 KW | 300 KW | | |
| BATTERY TYPE | Built-in | Battery | | | External Battery | | | | |
| ONE POWER MODULE CAPACITY | 30KVA | / 30KW | 30KVA / 30KW (| or 20KVA / 20KW | 20KW | 30KVA / 30KW | 30KVA / 30KW | | |
| MAX. POWER MODULE NO. | 3 | 4 | 4 | 6 | 10 | 8 | 10 | | |
| MAX. BATTERY SET NO.** | 3 | 5 | - | - | - | - | - | | |
| INPUT | | | | | | | | | |
| Nominal Voltage | | | 3 x 380\ | AC/400VAC/415VAC | (3Ph+N) | | | | |
| Voltage Range | | | 305 ~ 478 VAC at | 100% load; 208 ~ 304 | IVAC at <70% load | | | | |
| Nominal Frequency | | 50/60Hz (Auto Sensing) | | | | | | | |
| Frequency Range | | 40Hz ~70Hz | | | | | | | |
| Power Factor | | | > 0.99 @ | 100% Load , >0.98 @ | 50% Load | | | | |
| Harmonic Distortion (THDi) | | | | < 3% @ 100% load | | | | | |
| OUTPUT | | | | | | | | | |
| Nominal Voltage | | | 3 x 380\ | AC/400VAC/415VAC | (3Ph+N) | | | | |
| Voltage Regulation(Steady state) | | ≦ | ± 1% Typical (balanc | ed load) ; ≦ ± 2% Ty | pical (imbalanced lo | ad) | | | |
| Nominal Frequency | | 50/60Hz | | | | | | | |
| Frequency Range(Synchronized) | | | 46H | z ~ 54Hz or 56Hz ~ 6 | 4Hz | | | | |
| Overload Capability | | 1 ho | our for 110%, 10 mins | s for 125%,; 1 min for | 150%, 200ms for >1 | 50% | | | |
| Harmonic Distortion | | | ≤ 2% THD (Line | ar Load) ; ≦ 4% THD | (Non-linear Load) | | | | |
| Efficiency | | Up to 94.5% | | | | | | | |
| BATTERY / CHARGER | The state of the s | | | | | | | | |
| Nominal Voltage | | +/- 216V (12V x 36 pcs) | | | | | | | |
| Maximum Voltage | | | + | /- 240V (12V x 40 pcs | s) | | | | |
| Minimum Voltage | | | + | /- 192V (12V x 32 pcs | s) | | | | |
| Float Charging Voltage | | | | 2.25V / Cell | · | | | | |
| Boost Charging Voltage | | | | 2.35V / Cell | | | | | |
| Temperature Compensation | | | | Yes | | | | | |
| Maximum Charging Current | g | iA | | power module | 6A | 8/ | Δ | | |
| (Per Power Module) | | DA . | 6A for 20KW | power module | UA . | | ~ | | |
| PHYSICAL | | | | | | | | | |
| Cabinet Dimension (D x W x H) mm | 1100 x 600 x 1475 | 1100 x 600 x 2010 | 1100 x 600 x 1475 | 1100 x 600 x 1475 | | 1100 x 600 x 2010 | | | |
| Net Weight (Kg) | 675 | 932 | 335 or 333 | 437.5 or 434.5 | 611 | 549 | 620 | | |
| ENVIRONMENT | I | | | | | | | | |
| Operating Temperature | | | | 0 ~ 40°C | | | | | |
| Relative Humidity | | | | ~ 95% non-condensir | | | | | |
| Altitude | | | <1 | 000m for Nominal pov | ver | | | | |
| IP Class | | | | IP 20 | | | | | |
| MANAGEMENT | | | | | | | | | |
| Smart RS-232 / USB | | Supports | | 3/XP/Vista/2008, Win | | and MAC | | | |
| Optional SNMP | | Power management from SNMP manager and web browser | | | | | | | |
| STANDARDS | | | | | | | | | |
| Safety | | IEC/EN 60950-1; IEC/EN 62040-1 | | | | | | | |
| EMC | | | | EN 62040-2 Category | y C3 | | | | |
| *When temperature is above 30° | the output nower f | actor will be de-rated | 0.9 at 31°C ~35°C a | nd 0.8 at 36°C ~40°C | | | | | |

*When temperature is above 30°C, the output power factor will be de-rated, 0.9 at 31°C ~35°C and 0.8 at 36°C ~40°C.

** One battery module contains 10 pcs of 12V/7Ah or 12/9Ah sealed lead acid batteries in one tray. One complete battery set contains 4 battery modules.

**If the UPS is installed or used in a place where the altitude is above than 1000m, the output power must be derated one percent per 100m.

Product specifications are subject to change without further notice.

| Model | Description | Dimension DxWxH(mm) | Weight (kg) |
|----------------|---------------------------------|---------------------|-------------|
| PM-20HV | 3P/3P 20KVA / 20KW power module | 650 x 440 x 132(3U) | 34 |
| PM-30HV | 3P/3P 30KVA / 30KW power module | 650 x 440 x 132(3U) | 34.5 |
| Battery Module | 10 pcs of 12V 9Ah batteries | 735 x 107 x 155 | 26 |

+Power 3P/3P 208V Modular UPS Selection Guide

| MODEL | +Power 30U-60LV | +Power 42U-80LV | +Power 30U-80LV | +Power 30U-120LV | +Power 42U-140LV | | | | |
|-----------------------------------|-------------------------|---|-------------------------------|---------------------------|--|--|--|--|--|
| PHASE | | | 3-phase in / 3-phase out | | | | | | |
| CABINET CAPACITY* | 54 KW | 72 KW | 72 KW | 108 KW | 126 KW | | | | |
| BATTERY TYPE | Built-in | Battery | | External Battery | | | | | |
| ONE POWER MODULE CAPACITY | | | 20KVA/18KW | | | | | | |
| MAX. POWER MODULE NO. | 3 | 4 | 4 | 6 | 7+1 | | | | |
| MAX. BATTERY SET NO.** | 3 | 4 | - | - | - | | | | |
| INPUT | | | | | | | | | |
| Nominal Voltage | | | 3 x 208 VAC (3Ph+N) | | | | | | |
| Voltage Range | | 156 ~ 253 VAC | at 100% load; 121 ~ 155VA | C at <70% load | | | | | |
| Nominal Frequency | | | 50/60Hz (Auto sensing) | | | | | | |
| Frequency Range | | | 40Hz ~70Hz | | | | | | |
| Power Factor | | > 0.9 | 9 at 100% load, >0.98 at 50% | 6 load | | | | | |
| Harmonic Distortion (THDi) | | | < 3% @ 100% load | | | | | | |
| OUTPUT | | | | | | | | | |
| Nominal Voltage | | | 3 x 208V/220VAC (3Ph+N) | | | | | | |
| Voltage Regulation (Steady state) | | ≤ ± 1% Typical (ba | lanced load); ≤ ± 2% Typic | al (imbalanced load) | | | | | |
| Voltage Regulation (Transient) | | | ≦ ± 5% Typical | | | | | | |
| Nominal Frequency | | | 50/60Hz | | | | | | |
| Frequency Range (Synchronized) | | | 46Hz ~ 54Hz or 56Hz ~ 64H; | z | | | | | |
| Overload Capability | | 1 hour for 110%, 10 i | mins for 125%,; 1 min for 150 | 0%, 200ms for >150% | | | | | |
| Harmonic Distortion | | ≤ 1.5% THD (Linear Load) ; ≤ 4% THD (Non-linear Load) | | | | | | | |
| Efficiency | | - | Up to 92.5% at over 50% loa | d | | | | | |
| BATTERY / CHARGER | | | | | | | | | |
| Nominal Voltage | | | +/- 120V (12V x 20 pcs) | | | | | | |
| Float Charging Voltage | | | 2.25V / Cell | | | | | | |
| Boost Charging Voltage | | | 2.35V / Cell | | | | | | |
| Temperature Compensation | | | Yes | | | | | | |
| Maximum Charging Current | | 8A for e | ach power module (User-adj | ustable) | | | | | |
| PHYSICAL | | | | | | | | | |
| Cabinet Dimension (D x W x H) mm | 1100 x 600 x 1475 [30U] | 1100 x 600 x 2010 [42U] | 1100 x 600 x 1475 [30U] | 1100 x 600 x 1475 [30U] | 1100 x 600 x 2010 [42U] | | | | |
| Net Weight (kg) | 675 | 828 | 335 | 437.5 | 7 Power Modules: 514.5 8 Power Modules: 549 | | | | |
| ENVIRONMENT | | | | | | | | | |
| Operating Temperature | | | 0 ~ 40°C | | | | | | |
| Relative Humidity | | | 0 ~ 95% non-condensing | | | | | | |
| Altitude | | | <1000m for Nominal power | | | | | | |
| IP Class | | | IP 20 | | | | | | |
| MANAGEMENT | | | | | | | | | |
| Smart RS-232 / USB | | Supports Windows® 2000 | 2003/XP/Vista/2008, Windov | vs® 7/8/10, Linux and MAC | | | | | |
| Optional SNMP | | Power manage | ment from SNMP manager a | nd web browser | | | | | |
| STANDARDS | | | | | | | | | |
| Safety | | UL | .1778, CSA C22.2 No. 107.3 | -05 | | | | | |
| EMC | | F | CC Part 15,Subpart B Class | A | | | | | |
| | · | | | | | | | | |

"When temperature is above 30°C, the output power factor will be de-rated, 0.8 at 31°C ~35°C and 0.7 at 36°C ~40°C.

"One battery module contains 10 pcs of 12V/rAh or 12/9Ah sealed lead acid batteries in one tray. One complete battery set contains 4 battery modules.

"If the UPS is installed or used in a placewhere the altitude is above than 1000m, the output power must be derated one percent per 100m.

Product specifications are subject to change without further notice.

| Model | Description | Dimension DxWxH(mm) | Weight (kg) |
|----------------|---------------------------------|---------------------|-------------|
| PM-20LV | 3P/3P 20KVA / 18KW power module | 650 x 440 x 132(3U) | 34.5 |
| Battery Module | 10 pcs of 12V 9Ah batteries | 735 x 107 x 155 | 26 |



+Power E



- High efficiency online double conversion technology
- Output power factor 1
- Modular design lowers MTTR
- Adjustable battery numbers
- Adjustable charging current
- Built-in maintenance bypass switch for easy maintenance without interruption
- Graphic 5.7" LCD design for easy configuration
- Support 1+1 cabinets parallel

+Power E 400V Online UPS Specification

| MODEL | +Power E 15U-60 +Power E 15U-90 | | | | |
|-----------------------------------|---|--|--|--|--|
| PHASE | 3-phase in/3-phase out | | | | |
| MAX CABINET CAPACITY* | 60KW 90KW | | | | |
| BATTERY TYPE | External Battery | | | | |
| ONE POWER MODULE CAPACITY | 20KVA / 20KW 30KVA / 30KW | | | | |
| MAX. POWER MODULE NO. | 3 | | | | |
| INPUT | <u> </u> | | | | |
| Nominal Voltage | 3 x 380VAC/400VAC/415VAC (3Ph+N) | | | | |
| Voltage Range | 305 ~ 478 VAC at 100% load; 208 ~ 478 VAC at <70% load | | | | |
| Nominal Frequency | 50/60Hz (Auto sensing) | | | | |
| Frequency Range | 40Hz ~70Hz | | | | |
| Power Factor | > 0.99 at 100% load, >0.98 at 50% load | | | | |
| Harmonic Distortion (THDi) | < 3% @ 100% load | | | | |
| OUTPUT | | | | | |
| Nominal Voltage | 3 x 380VAC/400VAC/415VAC (3Ph+N) | | | | |
| Voltage Regulation (Steady state) | ≤ ± 1% Typical (balanced load) ≤ ± 2% Typical (unbalanced load) | | | | |
| Voltage Regulation (Transient) | ≤ ± 5% Typical | | | | |
| Nominal Frequency | 50/60Hz | | | | |
| Frequency Range (Synchronized) | 46Hz ~ 54Hz or 56Hz ~ 64Hz | | | | |
| Overload Capability | 1 hour for 110%, 10 mins for 125%, 1 min for 150% and 200ms for >150% | | | | |
| Harmonic Distortion | ≦ 1.5% THD (Linear Load) ; ≦ 4% THD (Non-linear Load) | | | | |
| Efficiency | Up to 94.5% | | | | |
| BATTERY / CHARGER | | | | | |
| Nominal Voltage | +/- 216V (12V x 36 Pcs) | | | | |
| Maximum Voltage | +/- 240V (12V x 40 Pcs) | | | | |
| Minimum Voltage | +/- 192V (12V x 32 Pcs) | | | | |
| Float Charging Voltage | 2.25V/Cell | | | | |
| Boost Charging Voltage | 2.35V/Cell | | | | |
| Temperature Compensation | Yes | | | | |
| Maximum Charging Current | 6A (User-adjustable) 8A (User-adjustable) | | | | |
| PHYSICAL | | | | | |
| Cabinet Dimension (D x W x H) mm | 1000 x 515 x 760 | | | | |
| Net Weight (kg) | 182 183.5 | | | | |
| ENVIRONMENT | | | | | |
| Operating Temperature | 0 ~ 40°C | | | | |
| Relative Humidity | 0 ~ 95% non-condensing | | | | |
| Altitude | <1000m for Nominal power | | | | |
| IP Class | IP 20 | | | | |
| MANAGEMENT | | | | | |
| Smart RS-232 / USB | Supports Windows* 2000/2003/XP/Vista/2008, Windows* 7/8/10, Linux and MAC | | | | |
| Optional SNMP | Power management from SNMP manager and web browser | | | | |
| STANDARDS | | | | | |
| Safety | IEC/EN 60950-1; IEC/EN 62040-1 | | | | |
| EMC | IEC/EN 62040-2 Category C3 | | | | |

*When temperature is above 30°C, the output power factor will be de-rated, 0.9 at 31°C ~35°C and 0.8 at 36°C ~40°C.

**If the UPS is installed or used in a placewhere the altitude is above than 1000m, the output power must be derated one percent per 100m. Product specifications are subject to change without further notice.

| Model | Description | Dimension DxWxH(mm) | Weight (kg) |
|-----------------|---------------------------------|----------------------|-------------|
| PM-30HV | 3P/3P 30KVA / 30KW power module | 650 x 440 x 132 (3U) | 34.5 |
| PM-20HV | 3P/3P 20KVA / 20KW power module | 650 x 440 x 132 (3U) | 34.0 |
| Battery Cabinet | 120 pcs of 12V 9Ah batteries | 1000 x 514 x 610 | 387 |

Rack Configuration













| +Power 400V 30K Cabinet | | | | | | | |
|---|---|------------------|------------------|---|--|------------------|--|
| Rack Model Name | 30U-90HV | 30U-120HV | 30U-180HV | 42U-120HV | 42U-210HV | 42U-300HV | |
| Height | 30U | 30U | 30U | 42U | 42U | 42U | |
| STS Capacity | 90K | 120K | 210K | 120K | 210K | 300K | |
| Type of installable power module | HV 30K or HV 20K | HV 30K or HV 20K | HV 30K or HV 20K | HV 30K or HV 20K | HV 30K or HV 20K | HV 30K or HV 20K | |
| Max. number of installable power module | 3 | 4 | 6 | 4 | 8 | 10 | |
| Number of installable battery modules in Layer | 3 | N/A | N/A | 5 | N/A | N/A | |
| Max. capacity of installing HV 20K module | 60K | 80K | 120K | 80K | 160K | 200K | |
| Max. capacity of installing HV 30K module | 90K | 120K | 180K | 120K | 210K (If installed with 8 pcs, one is for redundancy) | 300K | |
| Max capacity w/internal battery, no external battery | 60K (Maximum with 3 layers of battery modules) | N/A | N/A | 90K (Maximum with 5 layers of battery modules) | N/A | N/A | |
| Built-in empty battery modules in BOM | Yes, 12pcs | No | No | Yes, 20pcs | No | No | |

















| | | . 1 | . 4 | 17 71 | 14 41 |
|--|-------------|-------------|-------------|-------------|--|
| | | +Power 208V | 20K Cabinet | | |
| Rack Model Name | 30U-60LV | 30U-80LV | 30U-120LV | 42U-80LV | 42U-140LV |
| Height | 30U | 30U | 30U | 42U | 42U |
| STS Capacity | LV 60KVA | LV 80KVA | LV 140KVA | LV 80KVA | LV 140KVA |
| Type of installable power module | LV 20K only |
| Max. number of installable power module | 3 | 4 | 6 | 4 | 8 |
| Number of installable battery modules in layer | 3 | N/A | N/A | 4 | N/A |
| Max. capacity of installing LV 20K module | 60KVA | 80KVA | 120KVA | 80KVA | 140KVA (If installed with 8 pcs, one is for redundancy.) |
| Max capacity w/internal battery, no external battery | 60K | N/A | N/A | 80K | N/A |
| Built-in empty battery modules in BOM | Yes, 12pcs | No | No | Yes, 16pcs | No |

| | . 4 | 4 . | . 4 | ¥ ^ | 14 41 | |
|--|--------|----------|---------------|--------|---------------|--|
| | +Pov | wer 400V | 20K Cab | inet | | |
| Rack Model Name | 30U-80 |)-20KHV | 30U-120-20KHV | | 42U-200-20KHV | |
| Height | 30U | | 30 | U | 42U | |
| STS Capacity | 90K | | 120 | K | 210K | |
| Type of installable power module | HV 2 | OK only | HV 201 | C only | HV 20K only | |
| Max. number of Installable power module | | 4 | 6 | | 10 | |
| Number of Installable battery modules in layer | N/A | | N/ | A | N/A | |
| Max. capacity of installing HV 20K module | 8 | 0K | 120 |)K | 200K | |
| Max. capacity of installing HV 30K module | N | I/A | N/ | A | N/A | |
| Max capacity w/ internal battery, no external battery | ١ | I/A | N/ | A | N/A | |















| + | Power E 208V Cabine | et | | |
|---|---|---|--|--|
| Rack Model Name | E-60LV | E-60LV-L | | |
| Height | 15U | ~30U | | |
| STS Capacity | LV 60K | LV 60K | | |
| Type of installable power module | LV 20K only | LV 20K only | | |
| Max. number of power module | 3 | 3 | | |
| Number of installable battery module in layer | N/A | 3 | | |
| Max. capacity of installing LV 20K module | 60KVA | 60K | | |
| Max capacity w/ internal battery, no external battery | N/A | 60 | | |
| Built-in empty battery modules in BOM | No | The battery module of +Power E is easy-replaceable without hot-swappable design | | |
| Note | +Power E (15U) without battery module is available. +Power E (30U) with battery module is available. | | | |

| +Power E 400V Cabinet | | | | | | |
|---|--|-------------|---|--------------|--|--|
| Rack Model Name | E-90HV | E-60-20KHV | E-90HV-L | E-60-20KHV-L | | |
| Height | 15U | 15U | ~30U | ~30U | | |
| STS Capacity | 90K | 60K | 90K | 60K | | |
| Type of installable power module | HV 30K or HV 20K | HV 20K only | HV 30K or HV 20K | HV 20K only | | |
| Max. number of installable power module | 3 | 3 | 3 | 3 | | |
| Number of installable battery module in layer | N/A | N/A | 3 | 3 | | |
| Max. capacity of installing HV 20K module | 60K | 60K | 60K | 60K | | |
| Max. capacity of installing HV 30K module | 90K | N/A | 90K | N/A | | |
| Max capacity w/internal battery, no external battery | N/A | N/A | 60K | 60K | | |
| Built-in empty battery modules in BOM | No | No | The battery module of +Power E is easy-replaceable without hot-swappable design | | | |
| Note | +Power E (15U) without battery module is available. +Power E (30U) with battery module is available. | | | | | |

Outdoor UPS



- Provide continuous power to critical loads during blackout in rugged environment
- Wide operating temperature range from -40°C to 80°C suits for outdoor applications
- Built-in boost and buck AVR to regulate input voltage
- Selectable transfer time for normal or generator modes
- Provide RS-232, USB and SNMP intelligent port
- Circuit breaker protection on AC input, AC output and external battery input
- User-adjustable charging current
- Adjustable input threshold voltage
- Provide programmable signals for dry contacts
- Battery compensation optimizes battery lifecycle

Outdoor UPS Specification

| MODEL | | Outdoor 2000A | Outdoor 2000E | | | | |
|---|-------------------------------------|--|---|--|--|--|--|
| Rated Power | | 2000VA | | | | | |
| INPUT | | 200071 | | | | | |
| Nominal Voltage | | 120 VAC | 230/240 VAC | | | | |
| Acceptable Voltage Range | | 88 ~152 VAC user programmable. Default: 100 ~ 130VAC | 176 ~ 300VAC user programmable. Default: 200 ~ 260VAC | | | | |
| Frequency Rang | <u> </u> | 50 Hz/60 Hz (Auto sensing) | | | | | |
| OUTPUT | | 30 Hz/00 Hz (Auto 30H3Hg) | | | | | |
| Nominal Voltage | | 120 VAC | 230/240 VAC | | | | |
| Voltage Regulati | on (Batt. Mode) | 120 VAC ± 5% | 230/240 VAC ± 5% | | | | |
| Output Frequence | ` ′ | 50Hz/60H | | | | | |
| THD (Batt. Mode | • | <3% @ Full I | | | | | |
| (====================================== | AC Mode | 95 | | | | | |
| Efficiency | AVR Mode | 90 | • • | | | | |
| ,, | Battery Mode | 90 | | | | | |
| | Normal Mode (max.) | 12 | | | | | |
| Transfer Time | Generator Mode (max.) | 25 | | | | | |
| Waveform | , | Pure sir | newave | | | | |
| BATTERY | l | | | | | | |
| Nominal DC Volt | age | 48V | DC | | | | |
| Low DC Warning Voltage | | 46VDC ± 0.4VDC @ no load | | | | | |
| Battery Type | | AGM | | | | | |
| Charging Curren | t | 2A/4A/6A/8A/10A (Adjustable) | | | | | |
| INDICATORS | | | | | | | |
| Bypass Mode | | Green LED on | | | | | |
| Battery Mode | | Green LED flashing | | | | | |
| No Output | | Green LED off | | | | | |
| Warning with Ou | tput | Yellow LED on | | | | | |
| Fault without Out | tput | Red LED on | | | | | |
| MANAGEMENT | | | | | | | |
| Communication | | RS-232/USB and | d optional SNMP | | | | |
| Dry Contact Rati | ng | 3A @ 125VAC | 3A @ 250VAC | | | | |
| PHYSICAL | | | | | | | |
| Dimension, Dx V | V x H (mm) | 240 x 400 x 133 | | | | | |
| Net Weight (kgs) | | 1 | 3 | | | | |
| Type of Mechani | cal Protection | IP | 20 | | | | |
| ENVIRONMENT | • | | | | | | |
| Humidity | | 5% to 95% Relative Hu | midity(Non-condensing) | | | | |
| Operating Temperature | | -40°C to 80°C | -40°C to 70°C | | | | |
| Noise Level | | < 48 | BdB | | | | |
| COMPLIANCE | | | | | | | |
| EMI Compliance | | Class A FCC/CISPR | [EN50091-2: 1995] | | | | |
| Surge Protection | | IEEE/ANSI C.62 | 2.41 & 2KV, L-N | | | | |
| Product specification: | s are subject to change without for | urther notice. | | | | | |

Product specifications are subject to change without further notice.

Automatic Voltage Regulator

Scudo AVR



| MODEL | Scudo 600 Scudo 1000 Scudo 1200 | | | | | | |
|--------------------|---------------------------------|--|--|--|--|--|--|
| CAPACITY | 600 VA / 360 W | 600 VA / 360 W 1000 VA / 600 W 1200 VA / 720 W | | | | | |
| INPUT | | | | | | | |
| Voltage | | 220/230/240 VAC | | | | | |
| Voltage Range | 180 - 264 VAC | | | | | | |
| Frequency Range | 50 Hz | | | | | | |
| OUTPUT | | | | | | | |
| Voltage | 220/230/240 VAC | | | | | | |
| Voltage Regulation | | ± 8 % | | | | | |
| | | | | | | | |

Shieldo AVR



| MODEL | Shieldo 400 | Shieldo 600 | Shieldo 800 | Shieldo 1000 | Shieldo 1200 | Shieldo 2000 | |
|---|----------------|--|----------------|-----------------|-----------------|------------------|--|
| CAPACITY | 400 VA / 200 W | 600 VA / 300 W | 800 VA / 400 W | 1000 VA / 500 W | 1200 VA / 600 W | 2000 VA / 1000 W | |
| INPUT | | | | | | | |
| Voltage | | | 120 | VAC | | | |
| Voltage Range | | | 95 - 14 | 18 VAC | | | |
| Frequency Range | | 60 Hz | | | | | |
| OUTPUT | | | | | | | |
| Voltage Regulation | | | | | | | |
| Modem/Phone Line Surge Protection | RJ-11 | | | | | | |
| Receptacles | | 8 (4 for AVR protection and 4 for extended use) | | | | | |



| | | | | ì | | | |
|---------------------------------------|-------------|---------------|-------------|-------------|--|--|--|
| MODEL | Shieldo 500 | Shieldo 600 | Shieldo 700 | Shieldo 800 | | | |
| CAPACITY | 250 W | 300 W | 350 W | 400 W | | | |
| INPUT | | | | | | | |
| Voltage | | 230 | VAC | | | | |
| Voltage Range | | 120 - 290 VAC | | | | | |
| Frequency Range | | 50 | Hz | | | | |
| OUTPUT | | | | | | | |
| Voltage Regulation | | - 15% - | - + 10% | | | | |
| Modem/ Phone Line Surge Protection | RJ-11 | | | | | | |
| Receptacles | | 3 x l | ndia | | | | |

Defendo AVR



| MODEL | Defendo 600 | Defendo 1200 | Defendo 2000 | Defendo 600 | Defendo 1000 | Defendo 1500 |
|-----------------------|-------------------|--------------------|---------------------|-------------------|---------------------|--------------------|
| CAPACITY | 600 VA / 300 W | 1200 VA / 600 W | 2000 VA / 1000 W | 600 VA / 300 W | 1000 VA / 500 W | 1500 VA / 750 W |
| INPUT | | | | | | |
| Voltage | | 120 VAC | | 230 VAC | | |
| Voltage Range | 95 - 148 VAC | | | 184 - 284 VAC | | |
| Frequency Range | 60 Hz | | | | 50 Hz | |
| OUTPUT | | | | | | |
| Voltage Regulation | ± 10% | | | | | |
| Receptacles | | NEMA x 8 | | Schuko x 3 / l | Jniversal x 3 / Ind | lia x 3 / UK x 3 |

Aegis AVR



- Microprocessor control guarantees high reliability
- Selectable input voltage range
- Time delay function eliminates transients that can affect connected equipment
- Provide stable output voltage
- Provide under-voltage, over-voltage, over-heat and over current protection
- Provide surge and spike suppression

Aegis AVR Selection Guide

| MODEL | Aegis 500 | Aegis 1000 | Aegis 1500 | Aegis 2000 | Aegis 3000 | Aegis 5000 | Aegis 8000 | Aegis 10000 |
|------------------------------|--|--------------------|---------------------------------|---------------------|---------------------|--|--------------------|---------------------|
| CAPACITY | 500 VA / 400 W | 1000 VA / 800 W | 1500 VA / 1200 W | 2000 VA / 1600 W | 3000 VA / 2400 W | 5000 VA / 4000W | 8000 VA / 6400W | 10000 VA / 8000W |
| INPUT | | | | | | | | |
| Voltage | 220 VAC or 230 VAC | | | | | 220 VAC or 230 VAC | | |
| Voltage Range | 110 VAC - 270 VAC or 110 VAC - 280 VAC (Wide input window) 140 VAC - 260 VAC or 150 VAC - 270 VAC (Normal input window) | | | | | 140 - 260 VAC or 140 - 270 VAC Option 1: 100 - 260 VAC or 100 - 270 VAC Option 2: 80 - 260 VAC or 80 - 270 VAC | | |
| Frequency Range | 60 Hz / 50 Hz | | | | | | | |
| оитрит | | | | | | | | |
| Voltage | 220 VAC or 230 VAC | | | | | 220 VAC or 230 VAC | | |
| Voltage Regulation | -10% ~ +10% | | | | | | | |
| EFFICIENCY | | | | | | | | |
| Normal Mode | 95% | | | | | 98% | | |
| AVR Mode | 92% | | | | | 92-95%* | | |
| PROTECTION | | | | | | | | |
| Delay Time | 3 minutes or 10 Seconds | | | | | | | |
| Full Protection | Over-voltage, under-Voltage, over-heat and over current Protection | | | | | | | |
| INDICATORS | | | | | | | | |
| LED Indicator | Normal indicator, AVR indicator, delay time setting and fault indicator | | | | | | | |
| Digital or Meter Display | Input and output voltage | | | | | | | |
| PHYSICAL | | | | | | | | |
| Dimension, D X W X H (mm) | 197 x 1 | 10 x 124 | 234 x 134 x 181 297 x 150 x 199 | | | 450 x 210 x 237 | | |
| Net Weight (kgs) | 2.4 | 3.91 | 5.4 | 6.55 | 8.56 | 10.96 | 14.31 | 15.95 |
| ENVIRONMENT | | | | | | | | |
| Operating Temperature | 0- 40°C | | | | | | | |
| Humidity | 0-90 % relative humidity (Non-condensing) | | | | | | | |
| | | | | | | | | |

^{*} Efficiency rate will be different based on different models and input voltage range



