

# Fortress 3P/3P with isolation transformer

ONLINE UPS



- Built-in output isolation transformer
- Pluggable power module design with front access to decrease MTTR, parallel redundancy capability for power guarantee
- Parallel operation with common battery
- Power walk-in function
- Dual-mains inputs
- Built-in 4 switches including Mains input, bypass input, output and maintenance bypass switch
- Flexible battery configuration and adjustable charging current
- Output power factor 1
- Active power factor correction in all phases
- Built-in 7" touch LCD screen for comprehensive information
- Emergency power off function(EPO)
- Generator compatible
- 50Hz/60Hz frequency converter mode

## Fortress 3-phase in/3-phase out with ISO Online UPS Selection Guide

MODEL	100K	120K	180K	200K
<b>PHASE</b>	3-phase in / 3-phase out			
<b>CABINET CAPACITY</b>	100KVA/100KW	120KVA/120KW	180KVA/180KW	200KVA/200KW
<b>BATTERY TYPE</b>	External Battery			
<b>PARALLEL CAPABILITY</b>	4			
<b>INPUT</b>				
Nominal Voltage	3 x 380/400/415 VAC (3Ph+N)			
Voltage Range	110-300 VAC @ 50% load; 176-276 VAC @100% load			
Nominal Frequency	50/60Hz (Auto sensing)			
Frequency Range	40Hz ~70Hz			
Power Factor	≥ 0.99 @ 100% load			
Harmonic Distortion (THDi)	< 5% at full linear load			
<b>OUTPUT</b>				
Nominal Voltage	3 x 380/400/415 VAC (3Ph+N)			
Voltage Regulation (Steady state)	≤ ± 1% Typical (balanced load)			
Nominal Frequency	50/60Hz			
Frequency Range (Synchronized range)	46Hz ~ 54Hz or 56Hz ~ 64Hz			
Overload Capability	≤ 110% for 1 hour, 111% ~ 125% for 10 mins, 126%~150% for 1 min and >150% for 200ms			
Harmonic Distortion	≤ 2% THD (Linear Load)			
<b>EFFICIENCY</b>				
AC Mode	90%			
ECO Mode	93%			
Battery Mode	88.5%			
<b>BYPASS</b>				
Nominal Voltage	3 x 380/400/415 VAC (3Ph+N)			
Voltage Range	-30% ~ +20%			
Frequency Range	46Hz ~ 54Hz or 56Hz ~ 64Hz			
Overload Capability	≤ 110% for 1 hour, 111% ~ 125% for 10 mins, 126%~150% for 1 min and >150% for 200ms			
<b>BATTERY / CHARGER</b>				
Nominal Voltage	+/- 192V ~ +/- 240V (Selectable)			
Maximum Voltage	+/- 240V (12V x 40 Pcs)			
Minimum Voltage	+/- 192V (12V x 32 Pcs)			
Floating Charge Voltage	2.28V / Cell (2.25 ~2.33 Selectable)			
Boost Charging Voltage	2.35V/Cell			
Temperature Compensation	Yes			
Maximum Charging Current	24A (Adjustable)	36A (Adjustable)	54A (Adjustable)	54A (Adjustable)
<b>PHYSICAL</b>				
IP Class	IP20			
Dimension, D x W x H (mm)	1000 x 480 x 1600	1000 x 480 x 1600	1000 x 600 x 2000	1000 x 600 x 2000
Net Weight (Kgs)	554	564	945	975
<b>ENVIRONMENT</b>				
Operating Temperature	0-40°C			
Operating Humidity	< 95 % and non-condensing			
Altitude**	<1000m for Nominal power			
<b>MANAGEMENT</b>				
Smart RS-232/USB	Supports Windows® Family, Linux and MAC			
Optional SNMP	Power management from SNMP manager and web browser			

\*\*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.