

Fortress 3phase UPS, 60KW to 1.2MW

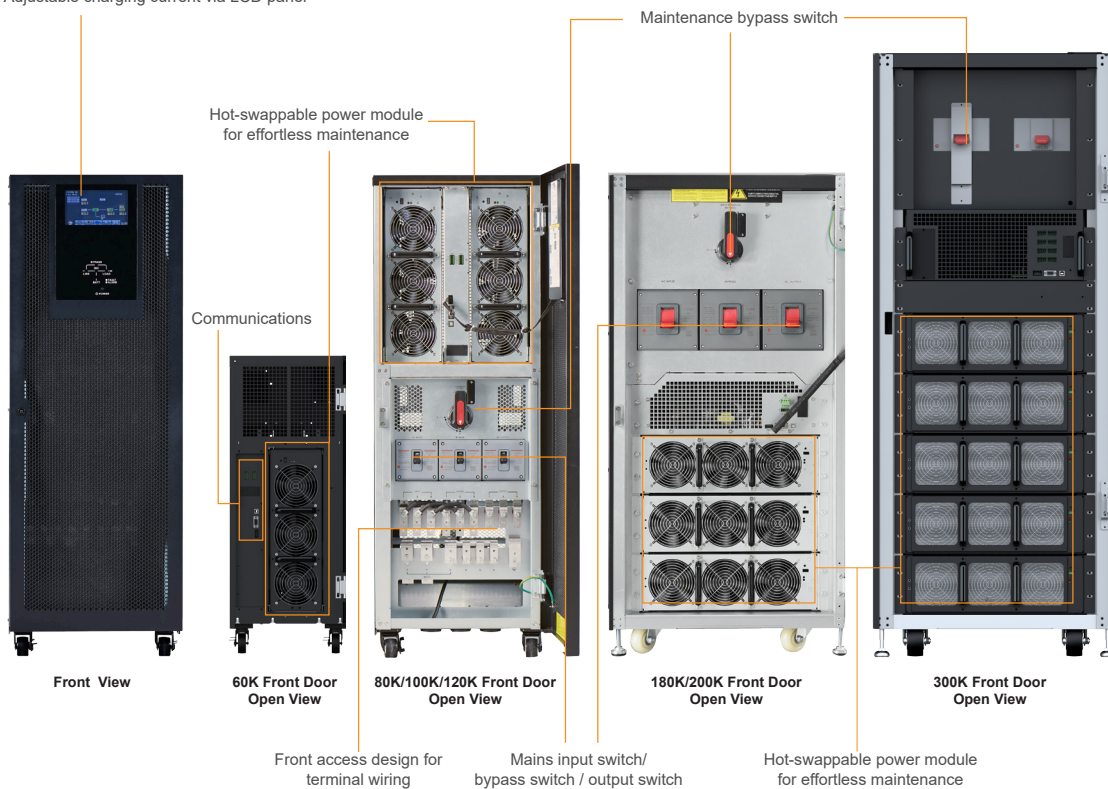


- Backfeed detection built-in
- Single power module on/off control through LCD panel
- Pluggable power module design with front access to decrease MTTR, parallel redundancy capability for power guarantee
- Parallel operation up to 4 units with common battery
- Power walk-in function
- Dual-mains inputs
- Built-in 4 switches including Mains input, bypass input, output and maintenance bypass switch
- Flexible battery configuration and adjustable charging current
- Optional extra communication is available
- Emergency power off function(EPO)
- Generator compatible
- 50Hz/60Hz frequency converter mode
- Compatible to Lithium-ion battery

Product Outlook

7" touch LCD screen

- Dynamic password optimizes service performance
- Adjustable charging current via LCD panel



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

MODEL	60K	80K-A	100K	120K	180K	200K	240K	300K
PHASE	3-phase in / 3-phase out							
CABINET CAPACITY	60KVA/60KW	80KVA/80KW	100KVA/100KW	120KVA/120KW	180KVA/180KW	200KVA/200KW	240KVA/240KW	300KVA/300KW
BATTERY TYPE	External Battery							
PARALLEL CAPABILITY	4							
INPUT								
Nominal Voltage	3 x 380/400/415 VAC (3Ph+N)							
Voltage Range	110-300 VAC @ 50% load; 184-276 VAC @100% load	110-300 VAC @ 50% load; 190-276 VAC @100% load	110-300 VAC @ 50% load; 184-276 VAC @100% load					
Nominal Frequency	50/60Hz (Auto sensing)							
Frequency Range	40Hz ~70Hz							
Power Factor	≥ 0.99 @ 100% load							
Harmonic Distortion (THDi)	<5% @ 100% load	<4% @ 100% load						
OUTPUT								
Nominal Voltage	3 x 380/400/415 VAC (3Ph+N)							
Voltage Regulation (Steady state)	≤ ± 1% Typical (balanced load) ≤ ± 2% Typical (unbalanced 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) ; ≤ 4% THD (Non-linear Load)							
EFFICIENCY								
AC Mode	95%	96%	95.5%					
ECO Mode	98%	99%	98.5%					
Battery Mode	94%	95.5%	94.5%					
BYPASS								
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							
BATTERY / CHARGER								
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	18A (Adjustable)	18A (Adjustable)	24A (Adjustable)	36A (Adjustable)	54A (Adjustable)	54A (Adjustable)	72A (Adjustable)	90A (Adjustable)
PHYSICAL								
IP Class	IP20, optional IP31							
Dimension, D x W x H (mm)	1000x320x800	1000x430x1200	1000x430x1200	1000x430x1200	1000x600x1200	1000x600x1200	1100x600x1475	1100x600x1475
Net Weight (Kgs)	94	125	169	169	249	249	360	396
ENVIRONMENT								
Operating Temperature	0-40°C							
Operating Humidity	< 95 % and non-condensing							
Altitude**	<1000m for Nominal power							
MANAGEMENT								
Smart RS-232/USB	Supports Windows® Family, Linux and MAC							
Optional SNMP	Power management from SNMP manager and web browser							
STANDARDS								
Safety	IEC/EN 62040-1							
EMC	IEC/EN 62040-2 Category C3							

**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.