

Fortress 3P/3P with isolation transformer



Features

- 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 convertor mode
- Built-in output isolation transformer

Product Outlook

7" touch LCD screen

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



Front View

Communications



60K Front Door Open View

Pluggable power module for effortless maintenance

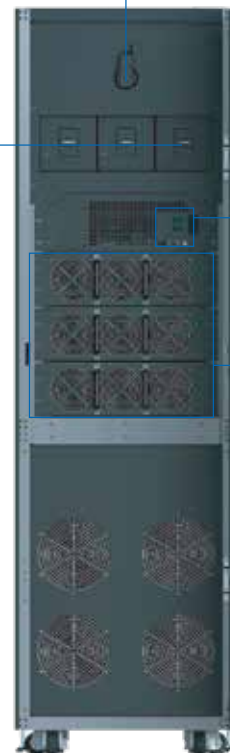
Communications



80K, 100K, 120K Front Door Open View

Maintenance bypass switch

Communications



180K, 200K Front Door Open View

Front access design for terminal wiring

Mains input switch/ bypass switch / output switch

Pluggable power module for effortless maintenance

Technical Specification:

MODEL	60K		80K	100K	120K	180K	200K
PHASE	3-phase in / 3-phase out						
CABINET CAPACITY	60KVA / 60KW	80KVA / 80KW	100KVA / 100KW	120KVA / 120KW	180KVA / 180KW	200KVA / 200KW	
BATTERY TYPE	External Battery						
PARALLEL CAPABILITY	4						
INPUT							
NOMINAL VOLTAGE	3 x 380/400/415VAC (3Ph+N)						
VOLTAGE RANGE	110-300VAC @ 50% load; 187-276VAC @ 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						
OUTPUT							
OUTPUT VOLTAGE	3 x 380/400/415VAC (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 10mins, 126%~150% for 1min and >150% for 200ms						
HARMONIC DISTORTION	≤ 2% THD (Linear load)						
EFFICIENCY							
AC MODE	92.3%						
ECO MODE	95.8%						
BATTERY MODE	91.3%						
BYPASS							
NOMINAL VOLTAGE	3 x 380/400/415VAC (3Ph+N)						
VOLTAGE RANGE	-30% ~ +20%						
FREQUENCY RANGE	46Hz ~ 54Hz or 56Hz ~ 64Hz						
OVERLOAD CAPABILITY	≤ 110% for 1 hour, 111%~125% for 10mins, 126%~150% for 1min and >150% for 200ms						
BATTERY / CHARGER							
NOMINAL VOLTAGE	±192V ~ ±240V (Selectable)						
MAXIMUM VOLTAGE	±240V (12V x 40pcs)						
MINIMUM VOLTAGE	±192V (12V x 32pcs)						
FLOATING CHARGE VOLTAGE	2.28V / Cell (2.25 ~ 2.33 Selectable)						
BOOST CHARGING	2.35V / Cell						
TEMPERATURE CONDENSATION	Yes						
MAXIMUM CHARGING CURRENT	18A (Adjustable)	24A (Adjustable)	24A (Adjustable)	36A (Adjustable)	54A (Adjustable)	54A (Adjustable)	
PHYSICAL							
DIMENSION (DxWxH)mm	1000 x 600 x 1200	1000 x 480 x 1600	1000 x 480 x 1600	1000 x 480 x 1600	1000 x 600 x 2000	1000 x 600 x 2000	
WEIGHT (KG)	334	517	517.0	557	826	866.0	
ENVIRONMENT							
OPERATING TEMPERATURE	0°C~40°C						
OPERATING HUMIDITY	< 95% and non-condensing						
ALTITUDE**	< 1000m for nominal power						
MANAGEMENT							
SMART RS-232/USB	Support Windows Family, Linux & 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
Product specifications are subject to change without further notice.