

Fortress PRO Series

Tower Type Design

60KVA - 300KVA

True Double Conversion Online UPS
(Three Phase)



25 Years of Excellence
Empowering Continuity

The Fortress PRO series is a cost-effective, 3-phase stand-alone true double conversion online UPS with and easy-to-replace, load-sharing module design.

The Fortress PRO series features pluggable power modules and front-access terminal wiring (available on 100K/120K models), ensuring quick and easy maintenance and replacement, significantly reducing MTTR (Mean-Time-To-Repair). Additionally, the Fortress PRO is equipped with four integrated switches: mains input, bypass input, output and maintenance bypass switch.

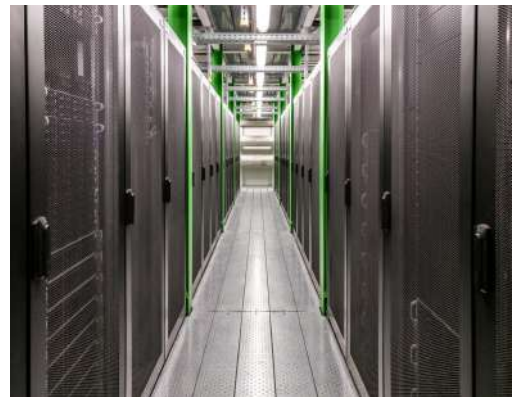
The Fortress PRO series UPS is design to deliver clean, high-quality power to mission-critical applications and equipments.

Features

- 7" Touch Screen LCD Display
- Built-in Backfeed Detection
- Single Power Module ON/OFF Control via LCD Panel
- Pluggable Power Modules With Front Access to Decrease MTTR And Parallel Redundancy Capability
- Supports Parallel Operation Up To 4 Units with Common Battery
- Power Walk-in Function
- Dual Mains Inputs
- Output Power Factor 1.0
- Come with 4 Built-in Switches : Main Input, Bypass Input, Output and Maintenance Bypass Switch
- Flexible Battery Configuration & Adjustable Charging Current
- Optional Additional Communication Features
- Emergency Power Off (EPO) Function
- Generator Compatibility
- Frequency Converter Mode for 50Hz/60Hz
- Lithium-ion Battery Compatibility

Ideal Protection for

- Data Center
- Healthcare
- Financial Facilities
- Telecommunication
- Transportation



Front & Rear Panel
60KVA



Front View

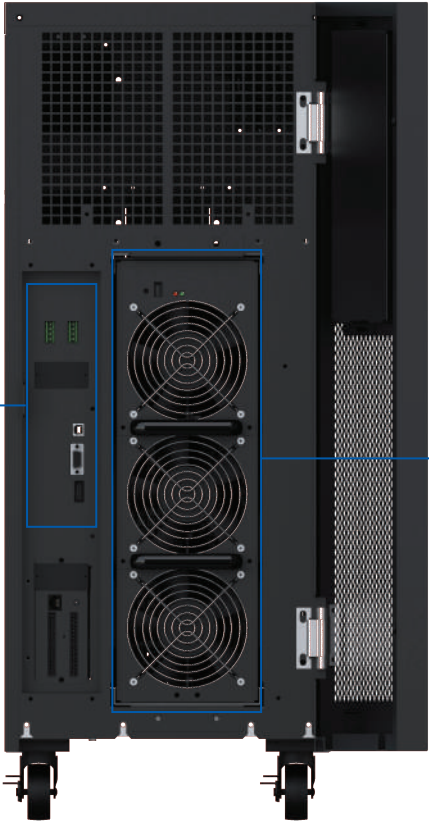
7" Touch Screen LCD Display

The dynamic password feature optimizes service performance, while the adjustable charging current can be conveniently managed through the LCD panel.

LED Indicators

Communication Ports

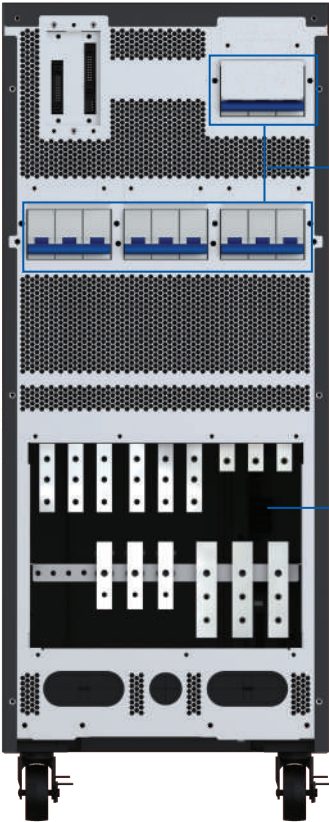
SNMP slot, LCD Port, RS 232 Port, USB Port, Dry Contact Ports



Front View (Open Door)

Power Module

Pluggable power module for easy maintenance



Rear View

Switch Unit

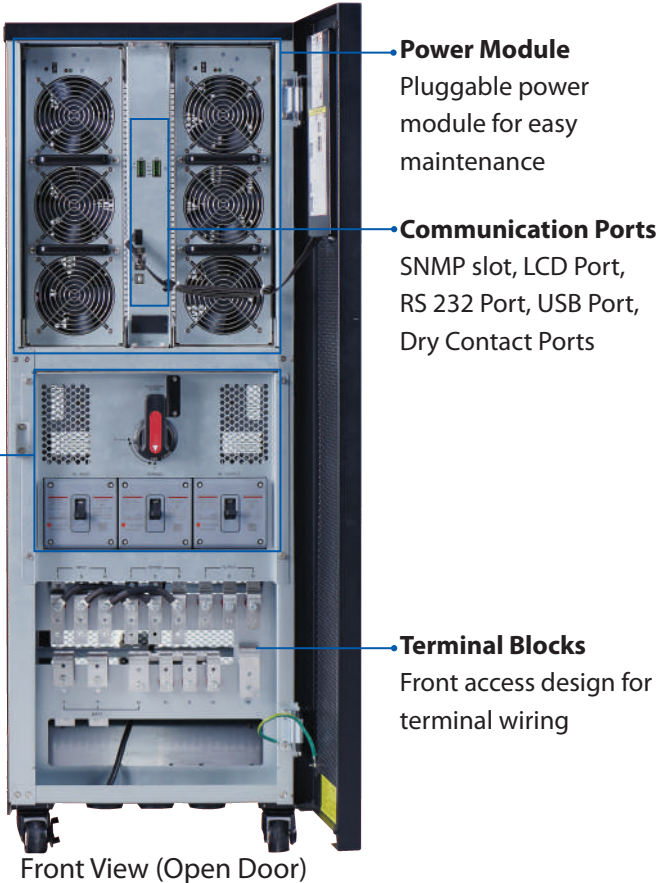
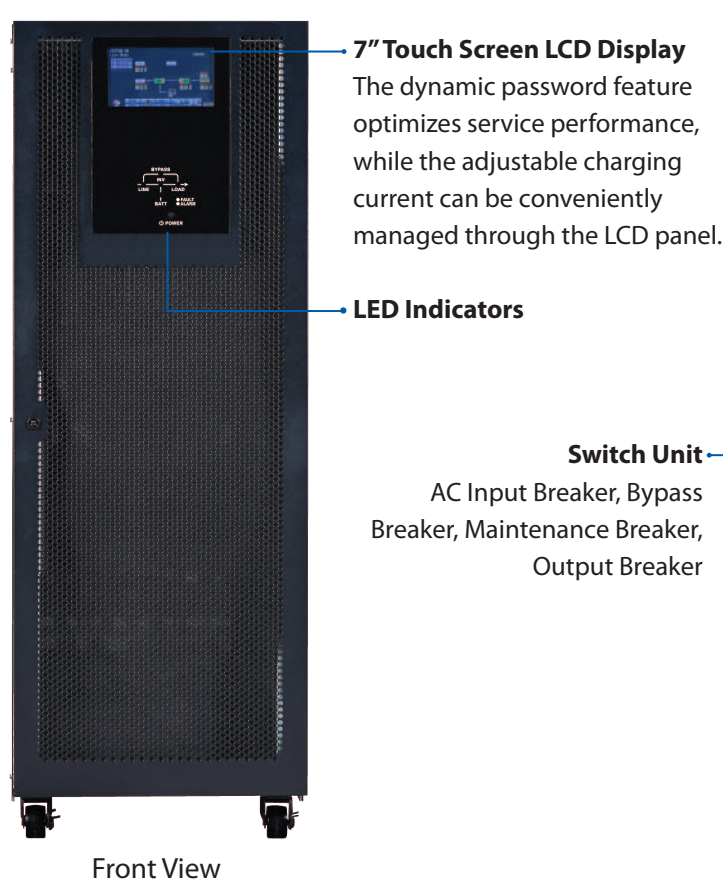
AC Input Breaker, Bypass Breaker, Maintenance Breaker, Output Breaker

Terminal Blocks

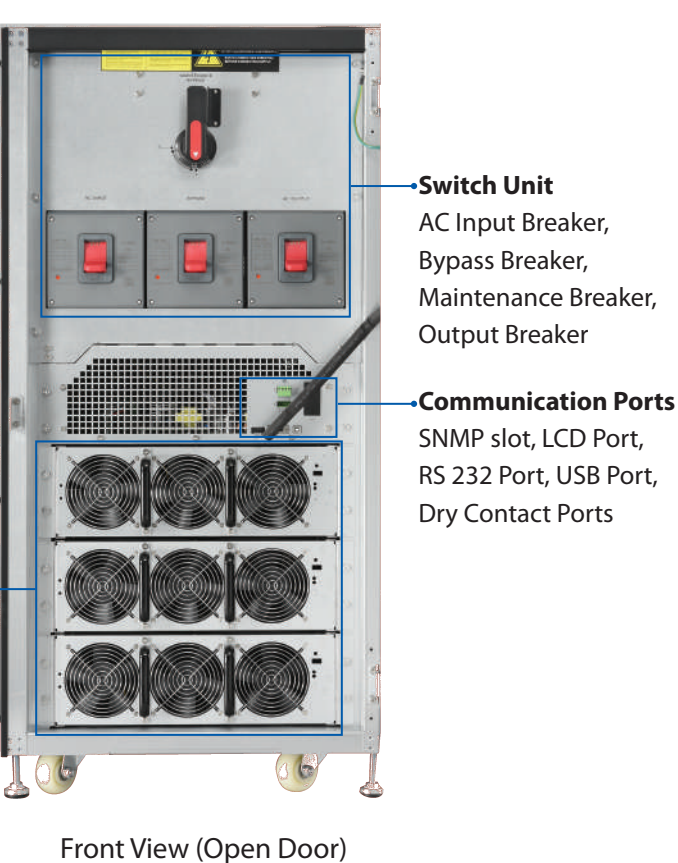
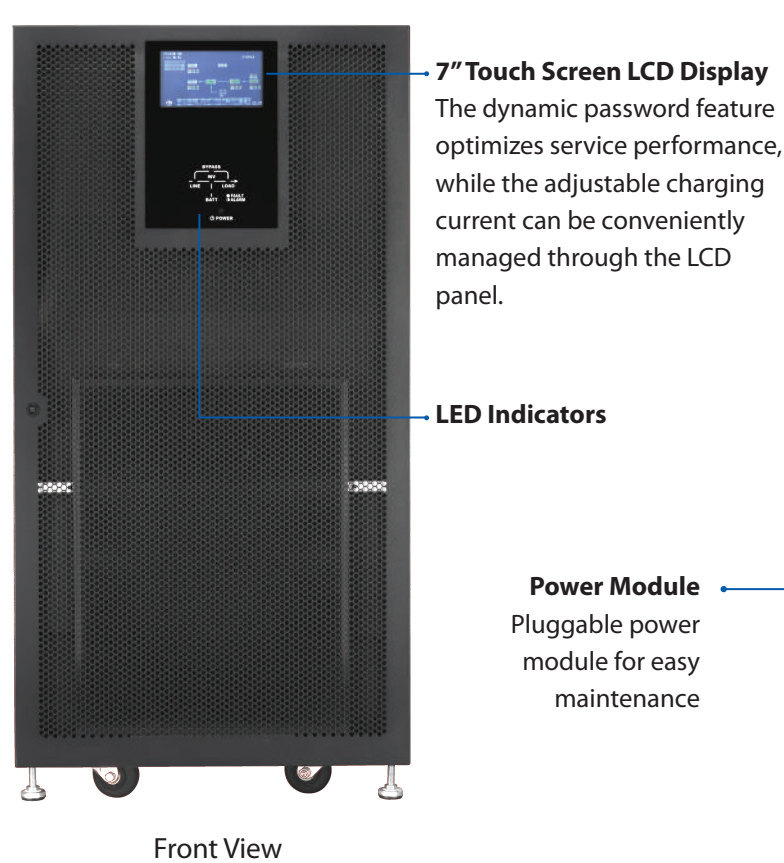


Side View

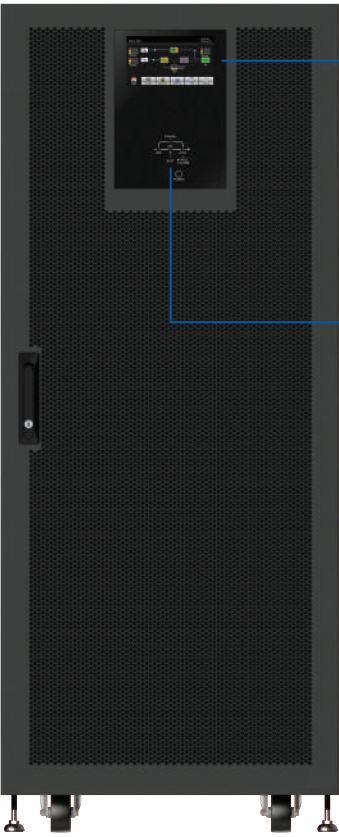
Front & Rear Panel
80KVA - 120KVA



180KVA - 200KVA



Front & Rear Panel
240KVA - 300KVA



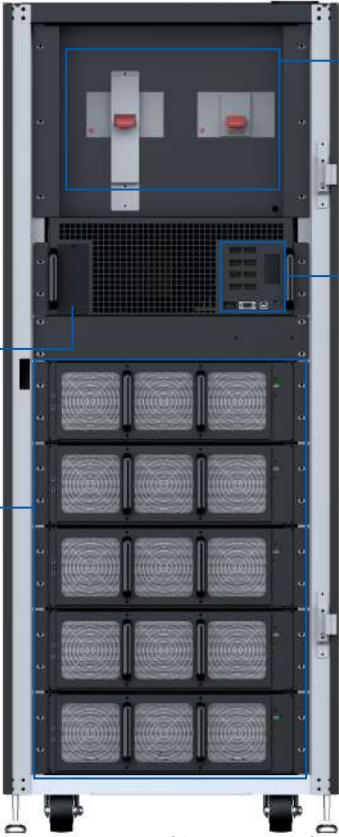
Front View

7" Touch Screen LCD Display
The dynamic password feature optimizes service performance, while the adjustable charging current can be conveniently managed through the LCD panel.

LED Indicators

Extra Communication Slot

Power Module
Pluggable power module for easy maintenance



Front View (Open Door)

Switch Unit
AC Input Breaker, Bypass Breaker, Maintenance Breaker, Output Breaker

Communication Ports
SNMP slot, LCD Port, RS 232 Port, USB Port, Dry Contact Ports



Side View

Technical Specification:

MODEL	Fortress PRO	Fortress PRO	Fortress PRO	Fortress PRO	Fortress PRO	Fortress PRO	Fortress PRO	Fortress PRO
	60K	80K	100K	120K	180K	200K	240K	300K
CAPACITY (KVA/WATTS)	60KVA / 60KW	80KVA/80KW	100KVA/100KW	120KVA/120KW	180KVA/180KW	200KVA/200KW	240KVA/240KW	300KVA/300KW
PHASE	3-Phase in / 3-phase out							
PARALLEL CAPABILITY	4							
INPUT								
NOMINAL INPUT VOLTAGE	3 x 380/400/415 VAC (3Ph+N)							
VOLTAGE RANGE	110-300 VAC							
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 OUTPUT 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%	95.5%						
ECO MODE	98%	98.5%						
BATTERY MODE	94%	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 CAPACITY	110% for 1 hour, 111% ~ 125% for 10 mins, 126%~150% for 1 min and >150% for 200ms							
BATTERY/ CHARGER								
BATTERY TYPE	External Battery							
NOMINAL VOLTAGE	+/- 192V ~ +/- 240V (Selectable)	+/- 240V	+/- 192V ~ +/- 240V (Selectable)					
MAXIMUM VOLTAGE	+/- 240V (12V x 40 Pcs)							
MINIMUM VOLTAGE	+/- 192V (12V x 32 Pcs)	+/- 240V	+/- 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)
STATUS INDICATION								
7" TOUCH SCREEN LCD DISPLAY	Load Level, Battery Level, AC Mode, Battery Mode, Bypass Mode, UPS Fault							
AUDIBLE ALARM	Battery Mode, Low Battery, UPS Fault, Overload							
COMMUNICATION								
POWER MANAGEMENT SOFTWARE	Support Windows Family, Linux & MAC							
INTERFACE	USB & RS-232 Communication Port							
INTELLIGENT SLOT	AS400 / SNMP							
PHYSICAL								
OPERATING ENVIRONMENT	0-40°C, < 95 % and non-condensing							
ALTITUDE*	<1000m for Nominal power							
DIMENSION (D x W x H)mm	1000x320x800	1000x430x1200	1000x430x1200	1000x430x1200	1000x600x1200	1000x600x1200	1100x600x1475	1100x600x1475
WEIGHT (KG)	94	125	169	169	249	249	360	396
SAFETY STANDARD								
PROTECTION	IP20, Optional IP31							
UPS SAFETY	IEC/EN 62040-1							
EMC	IEC/EN 62040-2 Category C3							
UPS PERFORMANCE TEST	VFI-SS-111 in accordance with IEC/EN 62040-3							
UPS COMPLIANCE	CE							
WARRANTY								
UPS WARRANTY	2 Years warranty include Parts, Labour & Battery							

*Specification subjects to change without prior notice

*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.



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