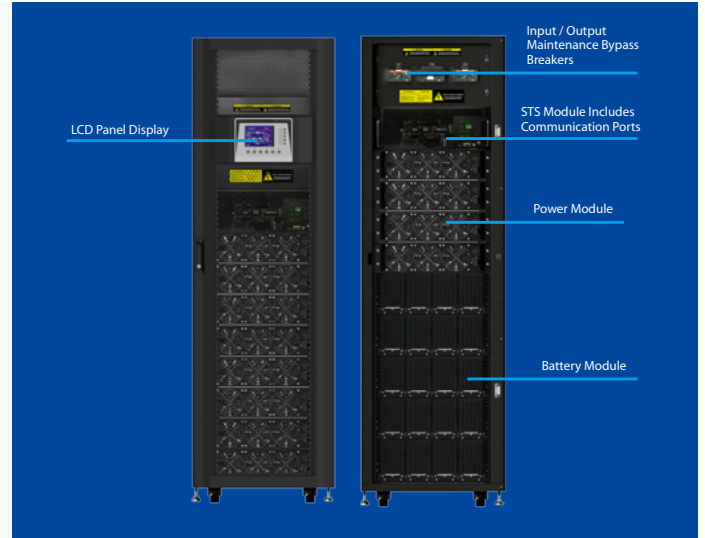




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+Power



• High efficiency online double conversion technology

+Power is applied online double conversion technology with high efficiency up to 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.

• High overload capability

+Power supports, 110% overload for 60 minutes, 120% for 10 minutes, and 150% for 1 minute.

• Adjustable charging current

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

• Redundant power supply in STS

+Power provides 2 power supplies in STS. It will ensure no shutdown risk in STS.

• 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.

• Modular design lowers MTTR

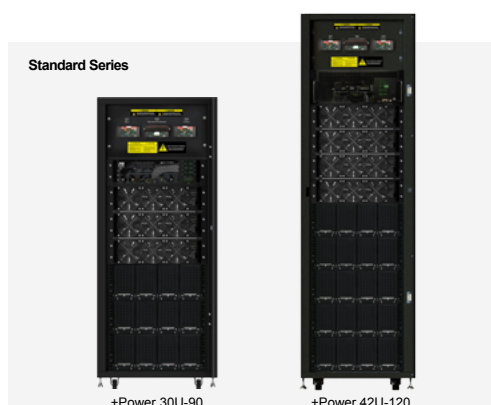
Modular design is applied in power module, STS module and battery module. It will simplify maintenance and replacement with low MTTR (Mean Time To Repair).

• Graphic 5.7" LCD design for easy management

Designed for easy management, +Power is equipped with 5.7" graphic LCD screen. Intuitive design enhances display information identified and advanced configuration.

• 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.



+Power Modular UPS Selection Guide

MODEL	+Power 30U-90	+Power 42U-120	+Power 30U-120	+Power 30U-180	+Power 42U-200	+Power 42U-210
PHASE	3-phase in / 3-phase out					
CABINET CAPACITY*	90 KW	120 KW	120 KW or 80 KW	180 KW or 120 KW	200 KW	210 KW
BATTERY TYPE	Built-in Battery		External Battery			
ONE POWER MODULE	30KVA / 30KW		30KVA / 30KW or 20KVA / 20KW		20KW	30KVA / 30KW
MAX. POWER MODULE NO.	3	4	4	6	10	8
MAX. BATTERY SET NO.**	3	5	-	-	-	-
INPUT						
Nominal Voltage	3 x 380VAC/400VAC/415VAC (3Ph+N)					
Voltage Range	305 ~ 478 VAC at 100% load; 208 ~ 304VAC 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 380VAC/400VAC/415VAC (3Ph+N)					
Voltage Regulation (Steady)	≤± 1% Typical (balanced load) ; ≤ ± 2% Typical (unbalanced load)					
Voltage Regulation (Transient)	≤± 5% Typical					
Nominal Frequency	50/60Hz					
Frequency Range	46Hz ~ 54Hz or 56Hz ~ 64Hz					
Overload Capability	1 hour for 110%, 10 mins for 125%;, 1 min for 150%, 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 (Per Power Module)	8A		8A for 30KW power module 6A for 20KW power module		6A	8A
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	932	335 or 333	437.5 or 434.5	625	549
ENVIRONMENT						
Operation 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, Linux, Unix, 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 .

** 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

