

















POWERMODULAR SERIES

10-2080 kVA 3:3

MODULAR ONLINE UPS





HIGHLIGHTS

- High Performance, Modular 3-Phase Power Protection
- Scalable up to 2080kVA. with 96% High Efficiency

MODULAR UPS DESIGN FOR HIGH DENSITY **DATA CENTERS**

- PM Series is a scalable, redundant Modular UPS system designed to cost effectively provide high level availability for high density data centers and critical applications.
- True Online Double Conversion and advanced DSP control technology.
- Modular Architecture can scale power and runtime as demand grows or as higher levels of availability required.
- Combines the modular design with the N+X parallel redundancy technology.
- The maximum capacity of a single cabinet is 520kVA. Cabinets can operate in parallel configuration to build a system of up to 2080kVA.





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SCALABLE MODULAR ARCHITECTURE

Scalable up to the highest active power rating available through two dimensional modularity: Vertical and Horizontal.

- · Capacity of single power module is 10-15-20-25-30-40-50kVA
- The height of single hot swappable power module is 3U
- Standard 1.4m cabinet can hold up to 5 of power modules
- Standard 2m cabinet can hold up to 13 of power modules
- The single UPS cabinet capacity can reach 520KVA and UPS cabinets can operate in parallel configuration to build a system of up to 2080kVA (see SIZE diagram on following page)

Modules	Output Power	Dimensions (W x H x D)	Weight
PM 3310-RM	10kVA 3/3 Module	443 x 131 x 580mm 3U	26kg
PM 3315-RM	15kVA 3/3 Module	443 x 131 x 580mm 3U	30kg
PM 3320-RM	20kVA 3/3 Module	443 x 131 x 580mm 3U	31kg
PM 3325-RM	25kVA 3/3 Module	443 x 131 x 580mm 3U	31kg
PM 3330-RM	30kVA 3/3 Module	443 x 131 x 580mm 3U	32kg
PM 3340-RM	40kVA 3/3 Module	443 x 131 x 580mm 3U	33kg
PM 3350-RM	50kVA 3/3 Module	443 x 131 x 580mm 3U	33kg









POWERMODULAR SERIES

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SIZE

Up to 520kW with additional 40kW modules



520kVA 1040kVA 1560kVA 2080kVA

Up to 2080kW with additional 520kW cabinets

"What you need now and add more modules as you grow"

STANDARD ELECTRICAL FEATURES

- Output Power Factor: 0.9 (Optional 1.0)
- Hot Swappable Maintenance (UPS & Battery)
- Separated Bypass
- Maintenance Bypass
- Parallelable up to 4 Cabinets
- Common Battery
- Control of On/Off State of each Module
- Freely Set the Charge Current
- Intelligent Charging
- Mid or Small Power Distributing System
- Selectable Battery Voltage 3 Input 3 Output ±216VDC/±228VDC/±240VDC (32/34/36/38/40pcs)

ADVANCED COMMUNICATION FEATURES

- RS232 (USB)
- RS485 Communication Interface
- SNMP Card (Optional)
- Relay Card (Optional)
- Centralized Monitor Module that is Hot Swappable
- Single Module LCD Display
- Control Monitoring with 5" Color LCD Graphic Display











Module Control Panel

HOT SWAPPABLE BATTERY MODULES

Plug and play battery modules ensures uninterrupted power to protected equipment while batteries are being replaced.

Allows quick and easy battery replacement.

- Each Battery Module Consists of 18 pcs 7Ah/9Ah
- Only 3U Height
- Simply Plug into UPS System



3 Battery Box (optional)



19" Matching Battery Cabinets (optional)

N+X PARALLEL REDUNDANCY

PowerModular series UPS adopts N+X parallel redundancy design, users can set different redundancy according to the importance of the load. While the number of redundancy modules are more than two, the availability of UPS system will achieve 99.999% and the MTBF will be more than 15,000 hours which can satisfying the reliability requirement of critical load.

The UPS redundancy degree can be set through the LCD, when the load exceeds the set value, the UPS will alarm in time.

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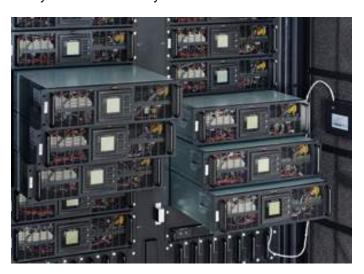


POWERMODULAR SERIES

MODULAR ONLINE UPS

INDEPENDENT CONTROL SYSTEM

Every power module is equipped independent control system, and control itself independently according to the sharing message, and the fault module separates from the system automatically.







10kVA/15kVA/20kVA/25kVA/ 30kVA 3:3 phase





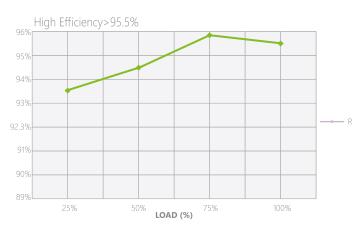
40kVA/50kVA 3:3 phase



HIGH EFFICIENCY AND LOW TOTAL **COST OF OWNERSHIP**

Designed for highly economical energy consumption and is a perfect fit in your data center and server room. Offering efficiency of up to 96%, THDi of 2% and unity Input Power Factor without harmonic filters PowerModular Series delivers:

- Significant energy savings
- Lower cooling costs
- Smaller generator sizing



- High input power factor (>0.99) and low input Total
- Harmonic Distortion (THDi<2%) minimizes installation costs by enabling the use of smaller generators and cabling.
- Fully-rated power kVA equals kW feature option reduces cost by eliminating the need for an oversized UPS for Power Factor Corrected (PFC) loads.

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POWERMODULAR SERIES 10-2080 KVA

MODEL		PM3310-100kVA	PM3320-100kVA	PM3320-200kVA	PM3325-250kVA	PM3330-150kVA	PM3330-300kVA	PM3340-200kVA	PM3340-320kVA	PM3340-520kVA	PM3340-800kVA	PM3340-1040kVA	PM3340-1560k\
CAPACITY													
UPS Cabinet		10~100 kVA	20~100 kVA	20~200 kVA	25~250 kVA	30~150 kVA	30~300 kVA	40~200 kVA	40~320 kVA	40~520 kVA	800 kVA	1040 kVA	1560 kVA
Paralleling		Up to 6 Frame	Up to 6 Frame	Up to 6 Frame	Up to 6 Frame	Up to 6 Frame	Up to 6 Frame	Up to 6 Frame	Up to 6 Frame	Up to 4 Frame	Up to 2 Frame	Up to 2 Frame	Up to 1 Frame
PM Module				10kVA	/10kW, 15kVA	/15kW, 20kVA	/20kW, 25kVA	/25kW, 30kVA	/30kW, 40kVA	/40kW, 50kV	\/50kW		
INPUT													
Phase							3 Phase 4 Wir	es and Ground	d				
Rated Voltage		380/400/415 VAC											
/oltage Range		208~478 VAC or 120 VAC~276 VAC											
requency Range (H	z)	40~70 Hz											
Power Factor		>0.99											
Bypass Voltage Ran	ge	Max. Voltage: +15% (Optional +5%, +10%, +25%) Min. Voltage: -45% (Optional -20%, -30%) Frequency Protection Range: ±10%											
Current Harmonic							<2% (100% No	-					
Generator Input								port)				
OUTPUT							- Сир						
Phase							3 Phase 4 Wir	ac and Crouns	1				
Rated Voltage						2.	20/240 VAC 38	80/400/415 V/ 1	40				
Power Factor								1 1%					
Voltage Precision					±10/ ±20/	±40/ ±E0/ ±1/	1 O% of the Rate		Ontional) (EO/	(U+U 3) II=			
Output Frequceny Crest Factor					II/0, IZ/0,	14%, 13%, 110		a Frequency ((::1	optional) (50/1	0010.2) HZ			
THD						-10/ \\/i+b	د ∠≥ Linear Load		incorload				
						≤1% WIUI		4% WILLI NOII-L 6%	illeal Loau				
Efficiency	_	_	_	_	_	_	90	0 %	_	_	_	_	_
COMMUNICATION					D0000 D040	NE 1-4-11:	01.40 (01.11.41	D.O. al Dalas	l D 0 l				
UPS Cabinet					RS232, RS48	35, Intelligent	Slot x 2 (SNMF	P Card, Relay (Card, Dry Cont	act Optional)			
INTERFACE							200	000					
PM Series UPS Mod	ule						RS:	232					
BATTERY													
Voltage							5V / ±228V / ±		, , ,	· ·			
Charge Current (A)	UPS Cabinet	60A Max	30A Max	60A Max	60A Max	50A Max	100A Max	50A Max	80A Max	130A Max	200A Max	260A Max	390A Max
	Module	Depends on the Capacity of External Batteries											
Crest Factor	Backup Time	Utilty to Battery : Oms; Utily to Bypass: Oms											
THD	Transfer Time	e 6A/10A/(20A Optional) Max (Charge Current can be Set According to Battery Capacity Installed)											
PROTECTION													
Overload Normal Mode Load ≤110%: Last 60min, ≤125%: Last 10m							st 10min, ≤150	0%: Last 1min,	≥150% Shut D	own UPS Imn	nediately		
	Battery Mode			Load	≤110%: Last 10	0min, ≤125%:	Last 1min, ≤15	50%: Last 1s ≥	150% Shut Do	wn UPS Imme	diately		
OPERATING													
Temperature							0°C ~	40°C					
ENVIRONMENT													
Humidity							0 ~ 95% Non	n-Condensing					
Storage Temperatur	9	-25°C ~ 55°C											
Noise Number of N		<55 dBA (1m)											
Number of N	lodules >5	<65 dBA (1m)											
Altitude							<15	00m					
DIMENSIONS & WE	GHT												
Unit Dimensions	UPS Cabinet	600x840 x1400	600x840 x1400	600x1100 x2000	600x1100 x2000	600x840 x1400	600x1100 x2000	860x600 x2000	860x600 x2000	860x1200 x2000	860x1800 x2000	860x3000 x2000	1100x4800 x2000
(WxDxH) (mm)	Module						443 x 580	x 131 (3U)					
	UPS Cabinet	170	170	270	275	152	280	205	310	514	1600	1810	2800
Weight (kg)	Module			10kV	A: 26kg; 15kV/	A: 30kg; 20kV	4: 31kg; 25kVA	A: 31kg; 30kVA	: 32kg; 40kVA	: 33kg; 50kVA:	33kg		
	RD								51000-4, IEC60				

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