

PM Series

Modular UPS

1-1 , 3-1 Phase & 3-3 Phase UPS
5KVA-15KVA



2U



3U



About the PM SERIES

Perpetual Power PM Series utilizes advanced online double conversion technology to provide effective insulation against power disturbances, ensuring superior power quality and maximizing load uptime.

Key Features – PM Series UPS

- True Double Conversion
- Modular connector box with hot-swappable design for ease of power expansion, installation and maintenance
- Standard 19" form factor with tower/rack convertible design.
- Parallel operation with common battery
- Adjustable battery design
- DSP Technology guarantees high reliability
- Output Power Factor 1.0
- 50Hz /60Hz Frequency converter mode
- ECO Mode Operation for energy saving
- Emergency Power Off Function (EPO)
- Generator Compatible
- Customized System

Modular Connector

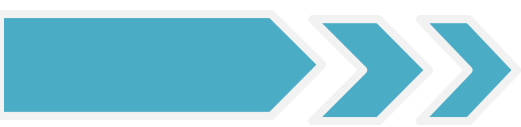
Perpetual features a patented modular design that enhances flexibility for power expansion and maintenance. By simply removing four screws from the connector box, the power module can be easily detached from the cabinet without disconnecting any wires. This design significantly simplifies maintenance and replacement processes, effectively reducing overall maintenance costs.



Standard 19" form factor with tower/rack convertible design.

Designed for easy adjustment, the vertical / horizontal conversion design enhances the flexibility and scalability of the modular UPS 19" form factor suits for the standard rack so it optimizes cost expense to meet the power demands.





Parallel Operation with common battery

Compared to general parallel system, multiple Perpetual Power UPS's can form a parallel power backup system by sharing common battery packs which might greatly reduce the expense and reach the same performance

Adjustable Battery Design

The number of connected batteries can be adjusted flexibly based on different power demands.

DSP Technology Guarantees High Reliability

A Digital Signal Processor (DSP) technology digitizes the data and mathematically manipulates them to provide an improved solution with higher performance

Output Power Factor 1.0

For critical applications, the modular UPS with output power factor 1.0 ensures higher efficiency and advanced performance.

50Hz/60Hz frequency converter mode

Lock output frequency at 50Hz or 60Hz to suit power sensitive equipments.

ECO Mode operation for energy saving

Eco mode improves the efficiency up to 97% to cut energy usage & cost. In this mode, loads are supplied by the mains directly. While mains failure, the UPS will constantly supply the power to the connected device without any interruption

Emergency power off function (EPO)

In case of any emergency and fire, the EPO control mechanism can instantly shut down the system.

Generator compatible

This UPS can accept generator as power source and still convert perfect power to the connected loads.

Customized System (only available for 3U)

Multiple Perpetual Power UPS's can easily form a complete system based on customer's demand



Customized System			
Cabinet Height	17U		
Number of Power Module	4	2	1
Number of Battery Module	0	2	3

*This customized system will be embedded 1 U centralized communication unit.

Technical Specifications

MODEL		PM 3/3-10K	PM 3/3-15K	PM 3/1-10K	PM 1/1-10K	PM 3/1-6K	PM 1/1-6K
PHASE		3 Phase in / 3 Phase out	3 Phase in / 3 Phase out	3Phase in / 1 Phase out	1 Phase in / 1 Phase out	3 Phase in/1 Phase out	1 Phase in / 1 Phase out
CAPACITY		10000VA/10000W	15000VA/15000W	10000VA/10000W	10000VA/10000W	6000VA/6000W	6000VA/6000W
PARALLEL CAPABILITY		10	15	10	10	10	10
INPUT							
Nominal Voltage		3x360VAC/380VAC/400VAC/415VAC(3Ph+N+PE)	3x360VAC/380VAC/400VAC/415VAC(3Ph+N+PE)	3x360VAC/380VAC/400VAC/415VAC(3Ph+N+PE)	208VAC/220VAC/230V AC /240VAC(1Ph+N+PE)	3x360VAC/380VAC/400VAC/415VAC(3Ph+N+PE)	208VAC/220VAC/230VAC/240VAC (1Ph+N+PE)
Voltage Range		190-520VAC (3-phase) @ 50%load 305-478VAC (3-phase) @ 100%load			110-300VAC@50%load 176-276VAC@100%load	190-525 VAC (3 Phase) @ 50% load 305-478 VAC (3 Phase) @ 100 % load	110-300VAC@50% load 176-276 VAC@100% load
Frequency Range		40Hz~70Hz					
Power Factor		≥0.99@100%load					
THDi		<4%@full linearload					
OUTPUT							
Output Voltage		360VAC / 380VAC / 400VAC/415VAC(3Ph+N)	415VAC(3Ph+N)360VAC / 380VAC / 400VAC /415 VAC	208*/220/230/240VAC(L+N)	208*/220/230/240V AC(L+N)	208*/220/230/240VAC(L+N)	208*/220/230/240VAC(L+N)
AC Voltage Regulation (Batt.Mode)		±1%					
Frequency Range (Synchronized Range)		46~54Hzor56~64Hz					
Frequency Range (Batt.Mode)		50Hz±0.1Hzor60Hz±0.1Hz					
Current Crest Ratio		3:1(max.)					
Harmonic Distortion		≤2%THD(LinearLoad)≤3%THD(Non-LinearLoad)					
Transfer Time	AC Mode to Batt.Mode	zero					
	Inverter to Bypass	Zero					
Waveform(Batt.Mode)		PureSinewave					
EFFICIENCY							
AC Mode		94%	94%	94%	93.50%	94%	93.50%
ECO Mode		97%	97%	97%	97%	97%	97%
Battery Mode	At Full Load	93%	93%	92.50%	92%	92.50%	92%
	Peak	93.50%	93.50%	93%	92.50%	93%	92.50%
BATTERY CHARGER							
Battery Voltage		±12V/ 9Ah					
Battery Numbers		16-20pcs (adjustable) x 2	16-20pcs (adjustable) x 2	16~20pcs(adjustable)x 2	16~20pcs(adjustable)x2	12pcsx 2	12pcsx 2
Nominal Voltage		+/-192V (12V x 32 Pcs)	+/-192V (12V x 32 Pcs)	+/-192V(12Vx32pcs)	+/-192V(12Vx32pcs)	+/- 144 V (12V x 24 pcs)	+/- 144 V (12V x 24 Pcs)
Maximum Voltage		+/-240V (12V x 40 Pcs)	+/-240V (12V x 40 Pcs)	+/-240V(12Vx 40pcs)	+/-240V(12Vx 40pcs)	+/-240V(12Vx 40pcs)	+/-240V(12Vx 40pcs)
Minimum Voltage		+/-192V(12V x 32 Pcs)	+/-192V(12V x 32 Pcs)	+/-192V(12Vx32pcs)	+/-192V(12Vx32pcs)	+/-192V(12Vx32pcs)	+/-192V(12Vx32pcs)
Charging Voltage		± 218V	± 218V	±218V	±218V	±218V	±218V
Typical Recharging Time		9hoursrecovert to90%capacity					
Charging Current		±4A					
INDICATORS							
LCD / LED Display		UPSstatus,Loadlevel,Batterylevel,Input/Outputvoltage,Dischargetimer,andFault conditions					
ENVIRONMENT							
Operating Humidity		0- RH@ 0-45°C (Non-Condensing)					
Noise Level		Less than 55dB @1Meter	Less than 55dB @1Meter	Lessthan55dB@1Meter	Lessthan55dB@1Meter	Lessthan58dB@1Meter	Lessthan58dB@1Meter
MANAGEMENT							
SmartRS-232/USB		Supports Windows®Family, Linux and MAC					
Optional SNMP		Power management from SNMP Manager and Web Browser					
PHYSICAL							
Dimension ,D x Wx H(mm)		678x418x129[3U]					
Net Weight (Kgs)		20.5	26.5	20.5	20.5	17.6	21

- **Accuracy weight ± 200gm

**Accuracy Dimension ± 20mm

Specifications are subject to change without notice.

Due to regular upgrade on picture and actual product may vary

Custom-made specifications are acceptable.

Our Clients





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