

# PowerHeart M

## 10~150kVA Modular UPS



### Power range

10~150 kVA

### Operation

3P/3P, 3P/1P, 1P/1P, online double conversion

### Designed to CARE

Small & Medium Data Center, High Density Smart Solutions, Light Industrial Applications, Smart Industry, Medium and Large Offices, Corporate Buildings.

### Characteristics

- 7 inch touch LCD, with IoT functions.
- Supports battery connection without Neutral.
- High reliability and environment adaptability, with protection of components level.
- No disassembly, direct mounted in 19 inch rack, or stand alone.
- Extreme high power density, 25kW in 2U, friendly for space and maintenance.
- Supports supercharging, satisfy high-capacity lithium batteries.



# PowerHeart M

## 10~120kVA Modular UPS



### Power range

10 ~120 kVA

### Operation

3P/3P,3P/1P,1P/1P,Online double conversion

### Designed to **CARE**

Small & Medium Data Center, High Density Smart Solutions, Light Industrial Applications, Smart Industry, Medium and Large Offices, Corporate Buildings.

### Characteristics

- Mounted in 19 inch rack, or stand alone.
- 7 inch touch LCD, with IoT functions.
- High reliability and environment adaptability, with protection of components level.
- Extreme high power density, 20kW in 2U, friendly for space and maintenance.
- Option of 30A charger module for long backup applications.



Model	2-Slot Cabinet			4-Slot Cabinet			6-Slot Cabinet		
	PHMM020/10	PHMM030/15	PHMM040/20	PHMM040/10	PHMM060/15	PHMM080/20	PHMM060/10	PHMM090/15	PHMM120/20
Rate Power	20kVA	30kVA	40kVA	40kVA	60kVA	80kVA	60kVA	90kVA	120kVA
Main input	Input 3P5W (3P+N+PE)								
	Rate Voltage 380/400/415VAC(L-L) 220/230/240VAC(L-N)								
	Rate Freq. 50/60Hz								
	Input PF >0.99								
	Current distortion THDi<3%(100% Linear load)								
	Voltage range 304 478VAC(L-L)full load 304 228VAC (L-L) power derate from 100% to 75%								
	Freq. range 40-70Hz								
Battery	Rate voltage ±240VDC								
	Charging capacity 20%*Pout								
	Charging accuracy ±1%								
Bypass	Rate voltage 380/400/415VAC(L-L)220/230/240VAC(L-N)								
	Voltage range Range: -40%- +25% , Settable, default -20% -+15%								
	Overload 110%, long time operation 110%< load<125%, 5 mins 125%<load<150%,1 min >150%,1 second								
Inverter	Rate voltage 380/400/415VAC(L-L) 220/230/240VAC(L-N)								
	Rate Freq. 50/60Hz								
	Output PF 1								
	Voltage accuracy ±1.0%								
	Load response <5% (20% - 80% -20% step load)								
	Recovery time < 20ms (0% - 100% -0% step load)								
	Output THDu <1%(linear load),<5% (non-linear load according to IEC 62040-3)								
	Overload 110%,1 hour 125%, 10 mins 150%, 1 min >150%,200ms								
	Frequency accuracy 0.1%								
	Synchronize window Settable ±0.5Hz-±5Hz, default ±3Hz								
	Slew rate Settable 0.5Hz/S-3Hz/S, default 0.5Hz/S								
	Phase Accuracy 120°±0.5°								
System	Efficiency Normal Mode up to 95.5%; Battery Mode up to 95.5%								
	Display LED + 7 inch touch LCD								
	Certification- Safety IEC62040-1, IEC60950-1								
	Certification- EMS IEC62040-2 IEC61000-4-2(ESD) IEC61000-4-3(RS) IEC61000-4-4 (EFT) IEC61000-4-5 (Surge)								
	IP degree IP20								
	Configuration USB, RS232, RS485, Dry contact, Cold start								
	Option SNMP card, AS400 card, Parallel kit, LBS, Air filter, Bottom entry kit								
	Environment ℃ 0-40 (operation) ℃ -25 ℃ -70 (storage) 0-95% (Humidity, non-condensing)								
	Noise(dB)(1 meter) 65dB @ 100% load, 62dB @ 45% load								
Dimension	cabinet(W*D*H)mm 482*700*396 (9U wheels not included)			482*700*662(15U wheels not included)			482*700*840(19U wheels not included)		
	module(W*D*H)mm 440*555*85 ( 2U )								
Weight(kg)	Cabinet 55			92			94		
	Module 17								
Power Module rated capacity	10KW	15KW	20KW	10KW	15KW	20KW	10KW	15KW	20KW

Statement: The products will continue to be innovative and optimized, which may lead to asynchronous updates of the actual product and promotional materials. Therefore, this document is for reference only and does not constitute any offer or commitment.