

# PowerHeart M

## 25~300kVA Modular UPS



### Power range

25 ~300 kVA

### Operation

3P/3P, 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

- Fully digital control, flexible and robust.
- 10 inch touch LCD, with IoT functions.
- High reliability and environment adaptability, with protection of components level.
- Extreme high power density, 30kW in 2U, friendly for space and maintenance.
- Option of 30A charger module for long backup applications.



Model		PHMM250/25	PHMM300/30
Rate Power		250kVA/250kW	300kVA/300kW
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 + 10 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, Air filter	
	Option	SNMP card, AS400 card, Parallel kit, SPD, LBS	
	Environment	0-40°C (operation) -25°C ~70°C (storage) 0-95% (Humidity, non-condensing)	
	Noise(dB)(1 meter)	65dB @ 100% load, 62dB @ 45% load	
Dimension	cabinet(W*D*H)mm	600*1000*2000	
	module(W*D*H)mm	440*678*85 (2U)	
Weight(kg)	Cabinet	260	
	Module	23	
Power Module rated capacity		25KW	30KW