

PowerHeart M

20~160kVA Modular UPS (208v)



Power range

20 ~160 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

- 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		PHMM060/20-LV	PHMM100/20-LV	PHMM160/20-LV
Rate Power		60kVA/60kW	100kVA/100kW	160kVA/160kW
Main input	Input	3P5W (3P+N+PE)		
	Rate Voltage	200/208/220VAC(L-L)		
	Rate Freq.	50/60Hz		
	Input PF	>0.99		
	Current distortion	THDi<3%(100% Linear load)		
	Voltage range	166 261VAC(L-L) full load 125 166VAC (L-L) power derate from 100% to 50%		
	Freq. range			
Battery	Rate voltage	±120VDC		
	Charging capacity	20%*Pout		
	Charging accuracy	±1%		
Bypass	Rate voltage	200/208/220VAC(L-L)		
	Voltage range	Range: -40%- +25% , Settable, default -20% +15%		
	Overload	<110%, long time operation ; 110%< load<125%, 10 mins; 125%<load<150%,1 min		
Inverter	Rate voltage	200/208/220VAC(L-L)		
	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 94% Battery Mode up to 94%		
	Display	LED + 7 inch touch LCD		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		
	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)		
Dimention	Noise(dB)(1 meter)	65dB @ 100% load, 62dB @ 45% load		
	cabinet(W*D*H)mm	482*816*796 (18U wheels not included)	482*816*1018(23U, wheels not included)	600*1000*2000
	module(W*D*H)mm	440*678*85 2U		
Weight(kg)	Cabinet	113	132	260
	Module	23		
Power Module rated capacity		20KW		