

PM890

10 kVA ~ 120 kVA (3:3)

PF 0.9



PM 890 series UPS is a intelligent 3 phase in 3 phase out uninterruptible power supply, it adopts double transform high frequency PWM and high performance digital control technique (DSP), with perfect protection, super network management function, reasonable man-machine interface and a series of precision design, meets all high reliability requirements of uninterruptible power supply and integrates reliable, safety, maintainability characteristics of a new generation low frequency UPS.

FEATURES

- Online double-conversion with full DSP control
- IGBT inverter with output isolation transformer
- 100% unbalance load capability
- Output power factor 0.9
- Generator compatible
- Support battery cold start and auto-restart when mains power is restored
- ECO mode operation for energy saving
- Superior protection
- 5.7 inches LCD touch screen, friendly human & machine interface
- Front access makes maintenance and replacement simplified (60 ~ 120 kVA)
- Intelligent self-diagnosing function, all kinds of failure protection, large capability of history records storage
- High MTBF (> 200,000 h)
- Low MTTR (< 0.5 h)
- Standard emergency power off (EPO)
- Standard RS232,RS485,dry contacts communication port
- Optional SNMP communication port
- Optional N+X redundancy parallel up to 6 units
- Optional input filter to improve input power factor

MODEL	HT10K	HT15K	HT20K	HT30K	HT40K	HT60K	HT80K	HT100K	HT120K	
Capacity	10 kVA / 9 kW	15 kVA / 13.5 kW	20 kVA / 18 kW	30 kVA / 27 kW	40 kVA / 36 kW	60 kVA / 54 kW	80 kVA / 72 kW	100 kVA / 90 kW	120 kVA / 108 kW	
INPUT										
Rated voltage	380 V / 400 V / 415 Vac									
Voltage range	± 25%									
Rated frequency	50 / 60 Hz									
Frequency range	50 / 60 Hz ± 5 Hz									
Power factor	≥ 0.95(with filter)									
Bypass voltage range	± 20% (settable)									
Delayed start of rectifier	1 ~ 300 s (settable via display panel)									
ECO voltage range	± 10% (settable)									
OUTPUT										
Voltage	380 V / 400 V / 415 Vac									
Voltage regulation	± 1%									
Frequency	Synchronized with utility in mains mode; 50 / 60 Hz ± 0.1% in battery mode									
Waveform	Sine Wave									
Power factor	0.9									
Crest factor	3:1									
Total harmonic distortion (THDV)	≤ 2% (linear load); ≤ 5% (non-linear load)									
Transfer time	AC mode to battery mode: 0 ms Inverter mode to bypass mode: 0 ms Inverter mode to ECO mode: 5 ~ 10 ms									
Overload	105%:long time running, 105%~110% for 1h, 110%~125% for 10 min, 125%~150% for 1 min, 150% ~ 200% for 200 ms, > 200% for 100 ms									
Slight adjustment of inverter output voltage	± 5 V									
BATTERIES										
DC Voltage	12 V × configured battery number (settable via display panel)									
Number of battery	28 ~ 32 pcs (settable)									
Charging current	10 A default / Settable									
Charging	Three-stage charging, auto switch floating / equalizing charge									
Battery state display	Display battery backup time, battery remaining capacity									
Battery self-test	Settable periodic self-test; manually configurable test time and voltage									
SYSTEM										
Efficiency	In line mode: Max. 94%; ECO mode: ≥98%									
Max. number of parallel connections	6									
Protections	Short-circuit – overload – overvoltage – undervoltage – low battery – overtemperature– fan fault									
Communications	RS232 / RS485 / dry contacts (standard), SNMP (optional)									
IP rating	IP20									
EMI	EN62040-2									
EMS	IEC61000-4-2(ESD), IEC61000-4-3(RS), IEC61000-4-4(EFT), IEC61000-4-5(surge)									
OTHERS										
Humidity	0~95% RH @ 0~40°C (non-condensing)									
Noise level	55 dB					60 dB		65 dB		
Dimensions (W×D×H) (mm)	400 × 800 × 1100					600 × 700 × 1500		700 × 800 × 1700		
Packaged dimensions (W × D × H) (mm)	490 × 920 × 1170					700 × 800 × 1650		800 × 900 × 1850		
Net / Gross weight(kg)	158/200	165/207	175/217	210/252	260/302	460/480	590/620	630/660	690/720	

- All specifications are subject to change without notice.
- Custom-made specifications are acceptable.

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