

HPM3300E Modular Series

Online Transformerless UPS Series

Power range: 40~1200kVA (3-Level PF: 1.0)

Mode: 3 phase input and 3 phase output

Module: 40/50/60kVA



Features



Modular Design

- All units adopt modular design, including power module, bypass module, monitoring module, can be easily integrated
- Power module, Bypass module, Monitoring module, ECU control module, all these modules are hot-swappable



High Reliability

- Wide input voltage range, line voltage range is 138-485V, UPS will derate to 40% when input voltage is below 305V
- UPS adopts multiple digital bus and redundancy parallel control system, making sure the whole system keep online if any single circuit fail
- The UPS will keep on single or parallel working, if any module fail
- Thickened conformal coating, applicable for harsh environment such as high heat, high humidity, dust



Green and Power Saving

- High input power factor, it is up to 0.99
- 3-level topology design, online efficiency up to 96%
- THDi<3% (100% linear load)
- The UPS will work in sleeping mode when the load is very small



LBS Function

- LBS function can realize 2 independent UPS system work in synchronization, and it enhances the reliability of the system



VRLA & Lithium Battery Supportable

- Compatible with VRLA or lithium battery



Parallel Redundancy Function

- Support parallel expanded operation: maximum is 6 units
- Support sharing batteries for the UPS in parallel



Strong Load Capability*

- Output power factor is 1.0, UPS can supply power to 100% unbalanced load
- High adaptability for load, it can connect full inductive load or capacitive load



Intelligent Management

- With 7 inches (Standard) and 10 inches (Optional) colorful touch LCD screen
- Support recording and exporting history logs and fault logs
- Support SNMP, RS232, RS485, BMS, Dry contact interface
- Support upgrading FW&SW on line (In bypass mode)
- EPO & REPO function



Compatible with Generator

- Power Walk In function, it can reduce the start current impact to system, and it can reduce the capacity of generator

*This series of products are not compatible with energy feedback loads, including but not limited to CT machines in the medical field, cutting machines in the semiconductor industry, and all types of elevators as well as other motor-driven equipment that incorporate energy feedback inverters at the front end.

Technical Specifications

MODEL		HPM3300E-80/120/200/320	HPM3300E-200/300/400/500/600/800/1000	HPM3300E-300/600/840/1080/1200
Capacity (VA/W)	UPS Cabinet	80~320k	200~1000k	300~1200k
	Module	40	50	60
	Max. Number	2/3/5/8	4/6/8/10/12/16/20	5/10/14/18/20
Max. Parallel Number		6		
INPUT				
Nominal Voltage (Vac)		380/400/415, (3Ph+N+PE)		
Operating Voltage Range (Vac)		138~305 for 40% load; 305~485 for 100% load		
Power Factor		≥0.99		
Harmonic Distortion (THDi)		≤3% (100% Linear load)		
Bypass Voltage Range (Vac)		Max. voltage: 220: +25% (Optional+10%, +15%, +20%) 230: +20% (Optional+10%, +15%) 240: +15% (Optional+10%) Min. voltage: -45% (Optional-10%, -15% -20%, -30%)		
Bypass Frequency Range (Hz)		50/60±10%		
OUTPUT				
Nominal Voltage (Vac)		380/400/415 (3Ph+N+PE)		
Voltage Regulation		±1%		
Output Frequency (Hz)		Line mode: Synchronize with input, when the input frequency >±10% (±1%/±2%/±4%/±5% optional), output 50/60 (±0.1z); Bat. mode: (50/60±0.1%)		
Crest Factor		3:1		
Harmonic Distortion (THDv)		≤2% with linear load; ≤4% with nonlinear load		
Overload	Inverter mode	≤110% 60min, ≤125% 10min, ≤150% 1min, >150% 1.2s shut down inverter		
	Bypass mode	30°C: 135% for long term; 40°C: 125% for long term; >1000%, 100ms		
EFFICIENCY*				
AC Mode		Up to 96%		
ECO Mode		Up to 99%		
HECO Mode		Up to 99%		
BATTERY				
Battery Type		VRLA/Li-ion		
Battery Voltage (Vdc)		360~600		
Charging Current (Max.)(A)		20		
MANAGEMENT				
LCD Display		Line voltage, Bypass Mode, Battery Low, Battery Fault, Overload & UPS Fault		
Alarm		Line Failure, Battery Low, Overload, System Fault		
Communication Ports		RS232, RS485, Parallel, LBS, BMS, Dry contact port, Relay card (Optional), SNMP card (Optional), Battery temperature sensor (Optional)		
SYSTEM FEATURES				
Overheat		Line Mode: Switch to Bypass; Backup Mode: Shut down UPS immediately		
Self-diagnostics		Upon Power On and Software Control		
Generator Input		Support		
EPO		Shut down UPS immediately		
ENVIRONMENTAL				
Operating Temperature (°C)		0~40		
Storage Temperature (°C)		-25~55		
Humidity Range		0~95% (Non condensing)		
Altitude (m)		<1000, derating required when >1000		
Noise Level (dB)		<66	<73	
PHYSICAL				
Dimension WxDxH (mm)	UPS Cabinet (S/F)	80/120kVA: 600×850×1200 200/320kVA: 600×850×2000	200/300/400kVA: 600×850×2000 500/600kVA: 1200×850×2000 800/1000kVA: 2000×850×2000	300kVA: 600×850×2000; 600kVA: 1200×850×2000 840/1080kVA: 2000×850×2000; 1200kVA: 2200×850×2000
	Power Module	440×620×130		
Weight (kg)	UPS Cabinet	80kVA: 155; 120kVA: 165; 200kVA: 270; 320kVA: 290	200kVA: 270; 300kVA: 290; 400kVA: 310; 500kVA: 650; 600kVA: 720; 800kVA: 980; 1000kVA: 1080	300kVA: 290; 600kVA: 720; 800kVA: 980; 1080kVA: 1080; 1200kVA: 1200
	Power Module	33	34	35
STANDARDS				
Safety		IEC/EN 62040-1, IEC/EN 62477-1		
EMC		IEC/EN 62040-2 (IEC 61000-2-2, IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, IEC 61000-4-8, IEC 61000-4-11)		
Performance		IEC 62040-3: 2021, EN IEC 62040-3: 2021		

*This efficiency is a typical value measured under standard test conditions and may vary slightly depending on the actual operating environment and conditions.

S: Without or only with one maintenance bypass switch

F: With mains, bypass, maintenance bypass and output switches

1. Specifications are subject to change without prior notice

2. Data above are typical values for reference only, not as a basis for engineering design