# HPM3300E Modular Series

## Online Transformerless UPS Series

Power range: 10~150kVA (3-Level PF: 1.0)

Mode: 3 phase input and 3 phase output

Module: 10/15/20/25/30kVA

## 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 95.8%
- THDi<3% (100% linear load)
- The UPS will work in sleeping mode when the load is very small (Settable)

### LBS Function

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

### Parallel Redundancy Function

- Support parallel expanded operation: maximum is 8 units
- Support sharing batteries for the UPS in parallel

### Flexible Battery Configuration

- Batteries number of each group can be selected from 30 pieces to 50 pieces
- Large charging current can meet the requirement of long time backup

### 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, 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-30 | HPM3300E-50 | HPM3300E-45 | HPM3300E-75 |
|---|---|---|---|---|---|
| Capacity (VA/W) | UPS Cabinet | 30k | 50k | 45k | 75k |
| | Module | 10 | | 15 | |
| | Max. Number | 3 | 5 | 3 | 5 |
| MODEL | | HPM3300E-60 | HPM3300E-100 | HPM3300E-50 | HPM3300E-125 |
| Capacity (VA/W) | UPS Cabinet | 60k | 100k | 50k | 125k |
| | Module | 20 | | 25 | |
| | Max. Number | 3 | 5 | 2+1 (Redundancy) | 5 |
| MODEL | | HPM3300E-60 | | HPM3300E-150 | |
| Capacity (VA/W) | UPS Cabinet | 60k | | 150k | |
| | Module | 30 | | | |
| | Max. Number | 2+1 (Redundancy) | | 5 | |
| 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%)<br>230: +20% (Optional +10%, +15%)<br>240: +15% (Optional +10%)<br>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 (±0.1); Bat. mode: (50/60±0.1%) | | | |
| Crest Factor | | 3:1 | | | |
| Harmonic Distortion (THDv) | | ≤1% with linear load; ≤3% with nonlinear load | | | |
| Overload | Inverter mode | ≤110% 60min, ≤125% 10min, ≤150% 1min, >150% 1.2s shut down inverter | | | |
| | Bypass mode | 30℃: 135% for long term; 40℃: 125% for long term; >1000%, 100ms | | | |
| EFFICIENCY* | | | | | |
| AC Mode | | Up to 95.8% | | | |
| ECO Mode | | Up to 99% | | | |
| HECO Mode | | Up to 99% | | | |
| BATTERY | | | | | |
| Battery Type | | VRLA (Lead acid maintenance free battery) | | | |
| Battery Voltage (Vdc) | | ±180/192/204/216/228/240/252/264/276/288/300 (30/32/34/36/38/40/42/44/46/48/50pcs, 36pcs default,<br>36~50pcs output power factor 1.0, 32~34pcs output power factor 0.9, 30pcs output power factor 0.8) | | | |
| Charging Current (Max.)(A) | | 18 | | | |
| 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 (℃) | | 0~40 | | | |
| Storage Temperature (℃) | | -25~55 | | | |
| Humidity Range | | 0~95% (Non condensing) | | | |
| Altitude (m) | | <1000, derating required when >1000 | | | |
| Noise Level (dB) | | <58 | | <61 | |
| PHYSICAL | | | | | |
| Dimension WxDxH (mm) | UPS Cabinet | 600×850×1200 | | | |
| | Power Module | 440×620×86 (2U) | | | |
| Weight (kg) | UPS Cabinet | 130~145 | | 145~170 | |
| | Power Module | 10kVA: 19; 15~30kVA: 21 | | | |
| 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.
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