HPM3300E Subrack Modular Series

Online Transformerless UPS series
Power range : 40~150kVA (3-Level PF: 1.0)

Mode: 3 phase input and 3 phase output
Module: 40/50/60kVA

Modular design

- All units adopt modular design, including power module, bypass module, monitoring module, can be easily integrated in MDC or customized cabinet
- 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, salt spray

Green and power saving

- High input power factor, it is up to 0.99
- 3-level topology design, efficiency is 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

- VRLA batteriy number of each group can be selected from 30pcs to 50pcs (continuously adjustable)
- Match with Kstar KLi series lithium battery rack, providing higher power density, lower footprint and longer cycle life
- Configuration of VRLA or Lithium can be chose from LCD
- Two wire connection, simplify the construction on site and save the cost of battery neutral cable

Parallel redundancy function

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

Strong load capacity

- 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

- Standard colorful touch screen
- Support recording and exporting history logs and fault logs
- Support SNMP, RS232, RS485, BMS, Dry contact interface
- Support upgrade of CAN of power module inside of cabinet

Compatible with generator

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

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Technical Specifications:

Module Model		HPM3300E-RM-40		HPM3300E-RM-50		HPM3300E-RM-60
Cabinet Model		HPM3300E-80	HPM3300E-120	HPM3300E-100	HPM3300E-150	HPM3300E-120
Cabinet capacity (VA)		40k~80k	40k~120k	50k~100k	50k~150k	60k~120k
Module capacity (VA)		40k		50k		60k
Max. number		2+1	3	2+1	3	2+1
INPUT						
Nominal voltage		380/400/415Vac, (3Ph+N+PE)				
Operating voltage range		138~305Vac for 40% load; 305~485Vac for 100% load				
Operating frequency range		40Hz~70Hz				
Power factor		≥0.99				
Harmonic distortion (THDi)		≤3% (100% linear load)				
Bypass voltage range		Max. voltage : 220V: +25% (optional+10%, +15%, +20%); 230V : +20% (optional +10%, +15%); 240V : +15% (optional +10%) Min. voltage : -45% (optional-10%, -15%, -20%, -30%)				
Bypass frequency range		±10%				
Power walk in		Support				
Generator input		Support				
OUTPUT						
Rated voltage		380/400/415Vac, (3Ph+N+PE)				
Power factor		1.0				
Voltage regulation		±1%				
Output frequency	Line mode	Synchronize with input, when the input frequency >±10% (±1%/±2%/±4%/±5% optional), output 50/60 (±0.1Hz)				
	Bat. mode	(50/60±0.1%)Hz				
Crest factor		3:1				
Harmonic distortion (THDv)		≤2% with linear load; ≤4% with nonlinear load				
Efficiency		96%				
BATTERY						
Battery voltage	VRLA battery	360Vdc~600Vdc (30~50pcs continuously adjustable, 30pcs default, 36~50pcs no power derating; 32~35pcs output power factor 0.9; 30/31pcs output power factor 0.8)				
	Lithium battery	512Vdc				
Power module charge current		20A (Max.)				
SYSTEM FEATURES						
Transfer time		Utility to Battery : 0ms; Utility to Bypass : 0ms				
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				
Overheat		Line Mode: Switch to Bypass; Backup Mode: Shut down UPS immediately				
Low battery voltage		Alarm and Switch off				
Self-diagnostics		Upon Power On and Software Control				
Backfeed protection		Support				
Battery		Advanced Battery Management				
Noise suppression		Complies with EN62040-3				
Audible & visual alarms		Line Failure, Battery Low, Overload, System Fault				
Status LED & LCD display		Line Mode, Bypass Mode, Battery Low, Battery Fault, Overload & UPS Fault				
Reading on the LCD display		Input, Output, Battery, Command, Setting, Maintenance				
Communication interface		RS232, RS485, Parallel, LBS, BMS, Dry contact port, Relay card(optional), SNMP card(optional), Battery temperature sensor(optional)				
ENVIRONMENTAL						
Operating temperature		0°C~40°C				
Storage temperature		-25°C~55°C				
Humidity range		0~95% (non condensing)				
Altitude		<1500m, derating required when >1500m				
Noise level		<57dB	<58dB		<62dB	
PHYSICAL						
Dimension W×D×H (mm)	UPS cabinet	485×850×620				
	Power module	440×620×130				
Net weight (kg)	UPS cabinet	103		113		110
	Power module	33		34		35
STANDARDS						
Safety		IEC/EN62040-1, IEC/EN62477-1				
EMC		IEC/EN62040-2 (IEC61000-4-2, IEC61000-4-3, IEC61000-4-4, IEC61000-4-5, IEC61000-4-6, IEC61000-4-8)				

Specifications are subject to change without prior notice.