

HPM3300E Module Series

Mode: Online Modular UPS 3phases in/out

Power range: 30KVA–300KVA



Modular design

- All units adopt modular design, these include power module, bypass module, monitor module, power distribution module(Only for single cabinet).The height of power module is 3U, bypass module is 3U, monitor module is 1U, monitor module is 1U, power distribution module is 11U, all of these are used in 19 inches standard cabinet.
- Power module, bypass module, monitor module, centralized module are hot swappable.

High reliability

- Wide input voltage range, line voltage range is 138–485V (phase voltage 80–280V), UPS should derate when input voltage is below 305V.
- Inside of the cabinet, there are multiple and redundant communication bus to control the system, if one communication bus fails, it will not affect the running of system.
- Remove one of the power modules, control or monitor modules will not affect the single running UPS or parallel running UPS.

Intelligent management

- 7 inches colourful touch screen is standard equipment. Support recording and exporting historic logs and fault logs.

- Support RS485, SNMP, dry contact card, support RJ45 interface and CAN interface.
- Support upgrade of CAN of power module inside of cabinet.

Green and power saving

- High input power factor, it is up to 0.99.
- Three level topology design, efficiency is up to %.
- THDi<3% (100% non-linear load), THDi<5% (50% non-linear load) Dormancy mode can be set, when loadrate is verylow, some power modules don't work and transfer to dormancy mode, and the power module in dormancy mode will replace the working module regularly, in this way, it canbalance the running time of the power modules and extend the lifetime of UPS.

Parallel redundancy function

- Support parallel expanded operation:maximum is 6 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.
- 3 intelligent charging methods.

Strong load capacity

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

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Technical Specifications:

Model	HPM3300E-60	HPM3300E-150	HPM3300E-300
UPS cabinet	30k~60k / 30k~60k	30k~150k / 30k~150k	30k~300k / 30k~300k
Max. Number	2+1 / 2+2(optional)	5 / 4	10 / 9
Module	HPM3300E-RM-30 (30k / 30k)		
Model	HPM3300E-50	HPM3300E-125	HPM3300E-250
UPS cabinet	25k~50k / 25k~50k	25k~125k / 25k~125k	25k~250k / 25k~250k
Max. Number	2+1 / 2+2(optional)	5 / 4	10 / 9
Module	HPM3300E-RM-25 (25k / 25k)		
Model	HPM3300E-60	HPM3300E-100	HPM3300E-200
UPS cabinet	20k~60k / 20k~60k	20k~100k / 20k~100k	10k~200k / 10k~200k
Max. Number	3 / 3+1(optional)	5 / 4	10 / 9
Module	HPM3300E-RM-20 (20k / 20k)		
Model	HPM3300E-45	HPM3300E-75	HPM3300E-150
UPS cabinet	15k~45k / 15k~45k	15k~75k / 15k~75k	10k~150k / 10k~150k
Max. Number	3 / 3+1(optional)	5 / 4	10 / 9
Module	HPM3300E-RM-15 (15k / 15k)		
Model	HPM3300E-30	HPM3300E-50	HPM3300E-100
UPS cabinet	10k~30k / 10k~30k	10k~50k / 10k~50k	10k~100k / 10k~100k
Max. Number	3 / 3+1(optional)	5 / 4	10 / 9
Module	HPM3300E-RM-10 (10k / 10k)		

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%, -20%, -30%)		
Bypass Frequency range	Frequency protection range: ± 10%		
Generator input	Support		
Power work in	Support		
Backfeed protection	Support		

OUTPUT

Rated voltage	380/400/415Vac, (3Ph+N+PE)		
Power factor	1.0		
Voltage regulation	± 1%		
Output frequency	± 1%/ ± 2%/ ± 4%/ ± 5%/ ± 10% of the rated frequency(optional)		
Line Mode	(50/60 ± 0.1%)Hz		
Bat. Mode			
Crest factor	3:1		
Harmonic distortion (THD)	≤2% with linear load; ≤4% with nonlinear load		
Efficiency	UP to 95.8%		

BATTERY

Battery voltage	Optional Voltage: ± 180/192/204/216/228/240/252/264/276/288/300Vdc (30/32/34/36/38/40/42/44/46/48/50pcs optional)360Vdc~600Vdc (30~50 pcs), 36 pcs default, 36 and 50 pcs fully output; 32~34 pcs output power factor 0.9; 30 pcs output power factor 0.8)		
Power module Charge Current	18A (Max.)		
UPS cabinet Max. Charge Current	54A/72A	90A/72A	180A/162A

SYSTEM FEATURES

Transfer time	Utility to Battery : 0ms; Utility to bypass: 0ms		
Overload	110% overload for 60 min; 125% overload for 10 min; 150% overload for 1 min 135% overload for long term; >1000% overload for 100 ms		
Line Mode	Line Mode: Switch to Bypass; Backup Mode: Shut down UPS immediately		
Bypass Mode	Alarm and Switch off		
Overheat	Upon Power On and Software Control		
Self-diagnostics	Support		
EPO	Advanced Battery Management		
Battery	Complies with EN62040-3		
Noise suppression	Line Failure, Battery Low, Overload, System Fault		
Audible & Visual alarms	Line Mode, Bypass Mode, Battery Low, Battery Fault, Overload & UPS Fault		
Status LED & LCD display	Input, Output, Battery, Command, Setting, Maintenance		
Reading on the LCD display	CAN,RS485,Parallel, Dry contact port, Relay card(optional), SNMP card(optional),Battery temperature sensor(optional)		
Communication interface			

ENVIRONMENTAL

Operating temperature	0°C ~ 40°C		
Storage temperature	-25°C ~ 55°C		
Humidity range	0 ~ 95% (non condensing)		
Altitude	< 1500m		
Noise level(from 1M distance)	<58dB	<61dB	<68dB

PHYSICAL

Dimension	UPS cabinet		600x1200x850	485 × 2000 × 850
W × HxD (mm)	Power module	440x86 (2U)x620		
Net weight (kg)	UPS cabinet	142	153	295
	Power module	10kVA: 19 Kg ; 15~30kVA: 21Kg		

STANDARDS

Audible & Visual alarms	IEC/EN62040-1,IEC/EN60950-1			
EMC	IEC/EN62040-2,IEC61000-4-2,IEC61000-4-3,IEC61000-4-4,IEC61000-4-5,IEC61000-4-6,IEC61000-4-8			

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Power factor	≥0.99	
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Bypass Frequency range	Frequency protection range: ± 10%	
Generator input	Support	
Power work in	Support	
Backfeed protection	Support	
OUTPUT		
Rated voltage	380/400/415Vac, (3Ph+N+PE)	
Power factor	1.0	
Voltage regulation	± 1%	
Output frequency	Line Mode	± 1%/ ± 2%/ ± 4%/ ± 5%/ ± 10% of the rated frequency(optional)
	Bat. Mode	(50/60 ± 0.1%)Hz
Crest factor	3:1	
Harmonic distortion (THD)	≤2% with linear load; ≤4% with nonlinear load	