HPM3300E Sub Rack Module Series

Mode: 3 phases in and 3 phases out **Power range: 10KVA–150KVA**

Modular design

· All units adopt modular design, these include power module, bypass module, monitoring module, which means can be easily integrated in MDC or customized cabinet.

· The height of power module is 2U, monitoring module is 1U, 8U height sub rack with 2U bypass module, 13U/17U height with 3U bypass module, all of them can be put into 19 inches standard cabinet.

High reliability

· Width input voltage range, line voltage range is 138-485V, UPS would be derating when input voltage is below 305V.

· UPS adopts multiple digital bus and redundancy parallel control system, make sure the whole system keep online if any single circuit fail.

· The UPS will keep on single or parallel working, if any module failed.

Green and power saving

· High input power factor, it is up to 0.99.

· Three level topology design, efficiency is up to 95.8%.

· THDi<3% (100% nonlinear load), THDi<5% (50% non-linear load)

· The UPS will be work on sleeping mode when the load is very less.

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.

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 or capacitive load.

Intelligent management

· 7 inches colorful touch screen is standard equipment. Support recording and exporting historic logs and fault logs.

· Support RS485, SNMP, Dry contact card , support RJ 45 interface and CAN interface.

· Support upgrade of CAN of power module inside of cabinet.

· EPO & REPO function.

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Technical Specifications:

Model	HPM3300E-60	HPM3300E-120	HPM3300E-150
UPS cabinet	30k~60k / 30k~60k	30k~120k / 30k~120	30k~150k / 30k~150k
Max. Number	2	4	5+1
Module	HPM3300E-RM-30 (30k / 30k)		
Model	**HPM3300E-50**	**HPM3300E-100**	**HPM3300E-150**
UPS cabinet	25k~50k / 25k~50k	25k~100k / 25k~100k	25k~150k / 25k~150k
Max. Number	2	4	5+1
Module	HPM3300E-RM-25 (25k / 25k)		
Model	**HPM3300E-40**	**HPM3300E-80**	**HPM3300E-120**
UPS cabinet	20k~40k / 20k~40k	20k~80k / 20k~80k	10k~120k / 10k~120k
Max. Number	2	4	5+1
Module	HPM3300E-RM-20 (20k / 20k)		
Model	**HPM3300E-30**	**HPM3300E-60**	**HPM3300E-90**
UPS cabinet	15k~30k / 15k~30k	15k~60k / 15k~60k	10k~90k / 10k~90k
Max. Number	2	4	5+1
Module	HPM3300E-RM-15 (15k / 15k)		
Model	**HPM3300E-20**	**HPM3300E-40**	**HPM3300E-60**
UPS cabinet	10k~20k / 10k~20k	10k~40k / 10k~40k	10k~60k / 10k~60k
Max. Number	2	4	5+1
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	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		
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	36A	72A	108A

SYSTEM FEATURES

Transfer time		Utility to Battery : 0ms; Utility to bypass: 0ms		
Overload	Line Mode	110% overload for 60 min; 125% overload for 10 min; 150% overload for 1 min		
	Bypass Mode	135% overload for long term; >1000% overload for 100 ms		
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		
EPO(optional)		Shut down UPS immediately		
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		CAN,RS485,Parallel, Dry contact port, Relay card(optional), SNMP card(optional),Battery temperature sensor(optional)		

ENVIRONMENTAL

Operating temperature		0℃ ~ 40℃		
Storage temperature		-25℃ ~ 55℃		
Humidity range		0 ~ 95% (non condensing)		
Altitude		< 1500m		
Noise level(from 1M distance)		<58dB	<60dB	<62dB

PHYSICAL

Dimension W × HxD (mm)	UPS cabinet	485 × 353 (8U) × 850	485 × 575 (13U) × 850	485 × 752 (17U) × 850
	Power module	440x86 (2U)x620		
Net weight (kg)	UPS cabinet	142	153	295
	Power module	21		

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