UPS MODULAR SUB RACK

CÓDIGO TRIMODSRACK

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.

Power saving

·High input power factor , it can be up to 0.99.

·Three level inverter topology, the efficiency can be up to 96%.

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

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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.

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		