



HPM3300E Sub Rack Module Series

Stock code 002518

KSTAR

COMPANY PROFILE

Founded in 1993, Shenzhen KSTAR Science & Technology Co., Ltd (Stock Code: 002518) is a National Torch Plan Key High-tech Enterprise, and also a pioneer of UPS industrial and a total solution provider for Data Center Critical Infrastructure & Photovoltaic Inverter Systems in Mainland China. KSTAR is fully committed to the R&D and has been providing high-quality products with full service to over 90 countries and regions worldwide, leading the industrial development with innovation.



KSTAR Industrial Park at Zhongkai Hi-Tech Zone, Huizhou, China



KSTAR Industrial Park at Guanlan Fuyuan industrial Zone, Shenzhen, China



ISO9001



ISO14001



OHSAS18001



IECQ QC080000



Global Service Network



7 × 24 Response and Support



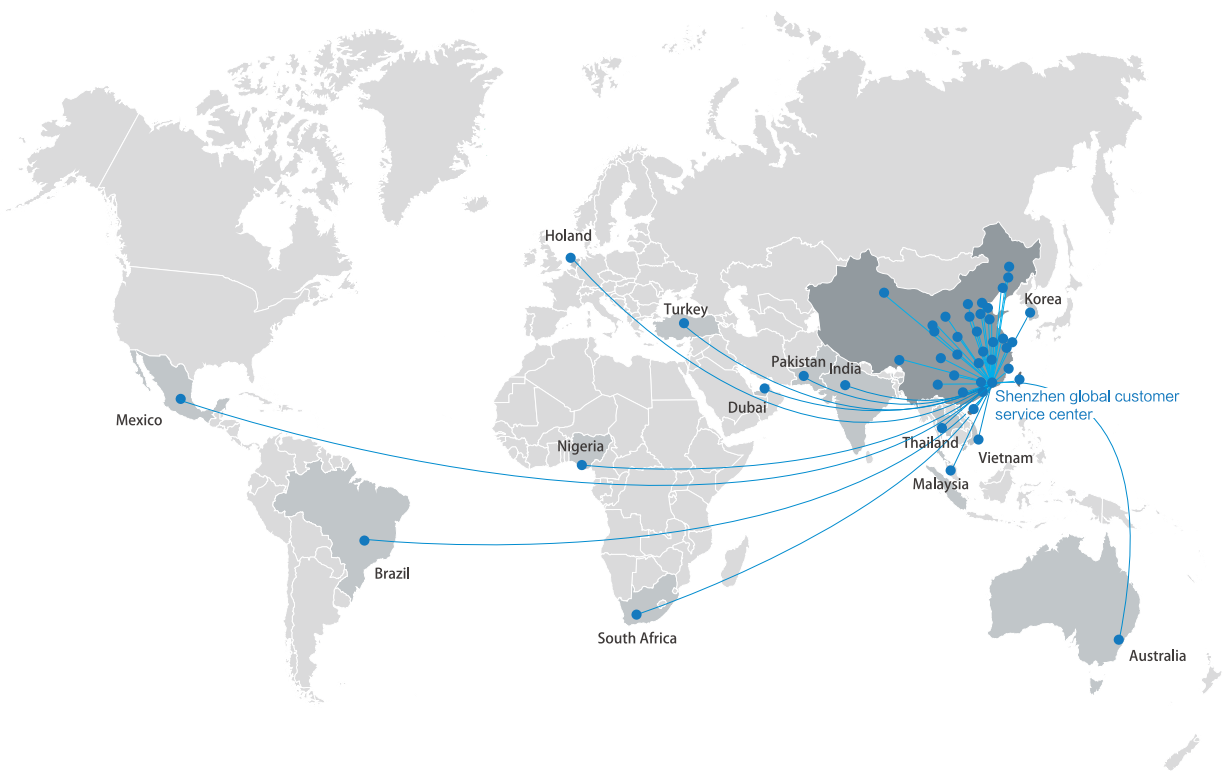
**31 Domestic Service Centers
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**17 Overseas Technical Service Centers
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HPM3300E Sub Rack Module Series

Mode: Online Modular UPS 3phases in/out

Power Range: 20kVA-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<2% (linear load), THDi<4% (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	HPM3330E-60kVA	HPM3330E-120kVA	HPM3330E-150kVA
UPS cabinet	30k~60k / 30k~60k	30k~120k / 30k~120	30k~150k / 30k~150k
Max. Number	2	4	5+1
Module	HPM3330E-RM (30k / 30k)		
Model	HPM3325E-50kVA	HPM3325E-100kVA	HPM3325E-150kVA
UPS cabinet	25k~50k / 25k~50k	25k~100k / 25k~100k	25k~150k / 25k~150k
Max. Number	2	4	6
Module	HPM3325E-RM(25k / 25k)		
Model	HPM3320E-40kVA	HPM3320E-80kVA	HPM3320E-120kVA
UPS cabinet	20k~40k / 20k~40k	20k~80k / 20k~80k	10k~120k / 10k~120k
Max. Number	2	4	6
Module	HPM3320E-RM(20k / 20k)		
Model	HPM3315E-30kVA	HPM3315E-60kVA	HPM3315E-90kVA
UPS cabinet	15k~30k / 15k~30k	15k~60k / 15k~60k	10k~90k / 10k~90k
Max. Number	2	4	6
Module	HPM3315E-RM (15k / 15k)		
Model	HPM3310E-20kVA	HPM3310E-40kVA	HPM3310E-60kVA
UPS cabinet	10k~20k / 10k~20k	10k~40k / 10k~40k	10k~60k / 10k~60k
Max. Number	2	4	6
Module	HPM3310E-RM (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		
Backfeed protection	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%/ ± 3%/ ± 4%/ ± 5% optional),output 50/60(± 0.1Hz)	
	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), 30 pcs default, 36~50 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%,60min; ≤ 125%,10min; ≤ 150%,1min;to bypass. > 150% Shut down Immediately.	
	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°C ~ 40°C		
Storage temperature	-25°C ~ 55°C		
Humidity range	0 ~ 95% (non condensing)		
Altitude	< 1500m		
Noise level(from 1M distance)	<58dB	<60dB	<62dB

PHYSICAL

Dimension	UPS cabinet	485 × 353 (8U) × 850	485 × 575 (13U) × 850	485 × 752 (17U) × 850
W × HxD (mm)	Power module	440x86 (2U)x620		
Net weight (kg)	UPS cabinet	142	153	295
	Power module	10kVA:19. 15~30kVA: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		

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