

HPM3300E Modular Series

Online Transformerless UPS series

Power range : 40~1000kVA (3-Level PF: 1.0)

Mode: 3 phase input and 3 phase output

Module: 40/50kVA (3U)



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.



ISO9001



ISO14001



OHSAS18001



IECQ QC080000



KSTAR Industrial Park at Guangming Industrial Zone, Shenzhen, China



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



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



Global Service Network



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**17 Overseas Technical Service Centers
40 Overseas Service Engineers**

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.

Parallel redundancy function

- Support parallel expanded operation: maximum is 6 units (HPM3300E-800/1000, maximum is 4 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% unbalanced load.
- High adaptability for load, it can connect full inductive load or capacitive load.

Intelligent management

- With 7 inches (standard) and 10 inches (optional) colorful touch LCD 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.
- EPO & REPO function.

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		
Cabinet Model	HPM3300E-200/320/400		HPM3300E-200/300/400/500/600/800/1000		
Cabinet capacity (VA)	200k~400k		200k~1000k		
Module capacity (VA)	40k		50k		
Max. number	5/8/10		4/6/8/10/12/16/20		
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	Frequency protection 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	Synchronize with input, when the input frequency > ±10% (±1%/±2%/±3%/±4%/±5% optional), output 50/60 (±0.1Hz)				
Line mode					
Bat. mode	(50/60±0.1%)Hz				
Crest factor	3:1				
Harmonic distortion (THDv)	≤1% with linear load; ≤3% with nonlinear load				
Efficiency	up to 96%				
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, 36~50 pcs no power derating; 32~34 pcs output power factor 0.9; 30 pcs output power factor 0.8)				
Power module charge current	20A (Max.)				
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; >100% 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				
Backfeed protection	Support				
EPO (optional)	Shut down UPS immediately (turn to bypass optional)				
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	<68dB		<73dB		
PHYSICAL					
Dimension W × D × H (mm)	UPS cabinet (S / F)	200/320kVA: 600 × 850 × 2000 400kVA: 1200 × 850 × 2000		200/300/400kVA: 600 × 850 × 2000 500/600kVA: 1200 × 850 × 2000 800/1000kVA: 2000 × 850 × 2000	
	Power module	440 × 620 × 130			
Net weight (kg)	UPS cabinet (S / F)	210~460		200kVA: 240; 300kVA: 260; 400kVA: 290; 500kVA: 480; 600kVA: 540; 800kVA: 960; 1000kVA: 1050	
	Power module	33		34	
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.

S: Without or only with one maintenance bypass breaker

F: With mains, bypass, maintenance bypass and output breakers



Website: www.kstar.com

CONTACT

Tel: +86-755-86169858

Fax: +86-755-86168482

E-mail: sales@kstar.com

HEADQUARTERS

Add: 4/F, No.1 Bldg,Software Park, Keji C. Rd. 2nd, Hi-Tech Industrial Zone, Shenzhen 518057, P.R.China

FACTORIES ADDRESS

Add: Kstar Industrial Park, Guangming Hi-Tech Industrial Zone, Shenzhen, P.R.China.

Add: Kstar Industrial Park, Fumin Industrial Zone, Guanlan Town, Shenzhen, P.R.China.

Add: Kstar Industrial Park, Zhongkai Hi-Tech Industrial Zone, Huizhou, P.R. China.