

# HPM3300E Modular Series

Online Transformerless UPS series  
Power range : 10~150kVA (3-Level PF: 1.0)

Mode: 3 phase input and 3 phase output  
Module: 10/15/20/25/30kVA (2U)



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**



**7 × 24 Response and Support**



**31 Domestic Service Centers  
172 Domestic Service Stations**



**National Customer Service Hotline:  
400-700-9662**



**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 95.8%.
- 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.
- 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.

# HPM3300E Modular series

## Technical Specifications:

Module Model	HPM3300E-RM-10	
<b>Cabinet Model</b>	<b>HPM3300E-30</b>	<b>HPM3300E-50</b>
Cabinet capacity (VA)	30k	50k
Module capacity (VA)	10k	
Max. number	3	5
Module Model	HPM3300E-RM-15	
<b>Cabinet Model</b>	<b>HPM3300E-45</b>	<b>HPM3300E-75</b>
Cabinet capacity (VA)	45k	75k
Module capacity (VA)	15k	
Max. number	3	5
Module Model	HPM3300E-RM-20	
<b>Cabinet Model</b>	<b>HPM3300E-60</b>	<b>HPM3300E-100</b>
Cabinet capacity (VA)	60k	100k
Module capacity (VA)	20k	
Max. number	3	5
Module Model	HPM3300E-RM-25	
<b>Cabinet Model</b>	<b>HPM3300E-50</b>	<b>HPM3300E-125</b>
Cabinet capacity (VA)	50k	125k
Module capacity (VA)	25k	
Max. number	2+1 (redundancy)	5
Module Model	HPM3300E-RM-30	
<b>Cabinet Model</b>	<b>HPM3300E-60</b>	<b>HPM3300E-150</b>
Cabinet capacity (VA)	60k	150k
Module capacity (VA)	30k	
Max. number	2+1 (redundancy)	5
<b>INPUT</b>		
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	
<b>OUTPUT</b>		
Rated voltage	380/400/415Vac, (3Ph+N+PE)	
Power factor	1.0	
Voltage regulation	± 1%	
Output Line mode	Synchronize with input, when the input frequency > ± 10% ( ± 1%/ ± 2%/ ± 3%/ ± 4%/ ± 5% optional), output 50/60 ( ± 0.1Hz)	
frequency 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 95.8%	
<b>BATTERY</b>		
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	18A (Max.)	
<b>SYSTEM FEATURES</b>		
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)	
<b>ENVIRONMENTAL</b>		
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	<58dB	<61dB
<b>PHYSICAL</b>		
Dimension UPS cabinet	600 × 850 × 1200	
W × D × H (mm) Power module	440 × 620 × 86 (2U)	
Net weight (kg) UPS cabinet	130~145	145~170
Power module	10kVA: 19; 15-30kVA: 21	
<b>STANDARDS</b>		
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.



Website: [www.kstar.com](http://www.kstar.com)

#### CONTACT

Tel: +86-755-86169858

Fax: +86-755-86168482

E-mail: [sales@kstar.com](mailto: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.