

**KSTAR**

# UPS Solution

HPM3300E Series UPS  
(30~1200kVA)



# KSTAR Overview

Founded in 1993 and listed on the Shenzhen Stock Exchange in 2010, KSTAR has specialized in the research, development, and manufacturing of **UPS, Precision Air Conditioner and Modular Data Center, Battery, PV Inverter, Energy Storage, and EV Charger** for over 30 years. It is a leading provider of comprehensive solutions in the smart energy sector.



—  
**1993**

Founded in

—  
**2010**

Listed in

—  
**4300+**

Employees

—  
**2**

R&D Centers

—  
**8**

Manufacturing Bases

—  
**180+**

Countries and regions



# Market Achievement



Global UPS Manufacturer



The Valve-regulated Sealed Lead-acid Battery Products Ranked First in the Chinese Mainland Market in 2024-2025



Five Automatic Production Lines  
The Annual Production Capacity is 3 Million kVAh



Cumulative Sales Reached 55 Million Units  
A Large-scale National Industry System  
National Unified Selection

Source: Omdia's "UPS Hardware Annual Tracker 2025"  
2024-2025 Annual Report on China's UPS Battery Market (ICT Research)

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# HPM3300E Modular Series

## Online Transformerless UPS Series

Power range: 30~75kVA (3-Level PF: 1.0)

Mode: 3 phase input and 3 phase output

Module: 10/15/20/25/30kVA



Front View

Hot swappable battery module  
24pcs maximum, each battery  
module includes 10pcs 12V9Ah

## Features

### Modular Design

- ◆ All units adopt modular design, including power module, bypass module, monitoring module, can be easily integrated
- ◆ 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

### Green and Power Saving

- ◆ High input power factor, it is up to 0.99
- ◆ 3-level topology design, online efficiency 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

### Build-in Battery Design

- ◆ Integrated solution, no additional battery cabinet is required, saving construction costs
- ◆ Maximum 6 groups of internal batteries, selectable according to autonomy time's requirement

### Strong Load Capability\*

- ◆ 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 upgrading FW&SW on line (In bypass mode)
- ◆ 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

\*This series of products are not compatible with energy feedback loads, including but not limited to CT machines in the medical field, cutting machines in the semiconductor industry, and all types of elevators as well as other motor-driven equipment that incorporate energy feedback inverters at the front end.

## Technical Specifications

MODEL		HPM3300E-30	HPM3300E-45	HPM3300E-50	HPM3300E-60	HPM3300E-75
Capacity (VA/W)	UPS Cabinet	30k	45k	50k	60k	75k
	Module	10/15	15	10/25	20/30	15/25
	Max. Number*	3+1/2+1	3+1	5/2+1	3+1/2+1	5/3+1
Max. Parallel Number		6				
<b>INPUT</b>						
Nominal Voltage (Vac)		380/400/415, (3Ph+N+PE)				
Operating Voltage Range (Vac)		138~305 for 40% load; 305~485 for 100% load				
Power Factor		≥0.99				
Harmonic Distortion (THDi)		≤3% (100% Linear load)				
Bypass Voltage Range (Vac)		Max. voltage: 220: +25% (Optional+10%, +15%, +20%) 230: +20% (Optional+10%, +15%) 240: +15% (Optional+10%) Min. voltage: -45% (Optional-10%, -15% -20%, -30%)				
Bypass Frequency Range (Hz)		50/60±10%				
<b>OUTPUT</b>						
Nominal Voltage (Vac)		380/400/415, (3Ph+N+PE)				
Voltage Regulation		±1%				
Output Frequency (Hz)		Line mode: Synchronize with input, when the input frequency >±10% (±1%/±2%/±4%/±5% optional), output 50/60 (±0.1); Bat. mode: (50/60±0.1%)				
Crest Factor		3:1				
Harmonic Distortion (THDv)		≤2% with linear load; ≤4% with nonlinear load				
Overload	Inverter Mode	≤110% 60min, ≤125% 10min, ≤150% 1min, >150% 1.2s shut down inverter				
	Bypass Mode	125% overload for long term; >1000% overload for 100 ms				
<b>EFFICIENCY*</b>						
AC Mode		Up to 95.8%				
ECO Mode		Up to 99%				
HECO Mode		Up to 99%				
<b>BATTERY</b>						
Battery Type		VRLA (Lead acid maintenance free battery)				
Battery Voltage (Vdc)		±240 (6×40pcs 9Ah/12V)				
Charging Current (Max.)(A)		18				
<b>MANAGEMENT</b>						
LCD Display		Line voltage, Bypass Mode, Battery Low, Battery Fault, Overload & UPS Fault				
Alarm		Line Failure, Battery Low, Overload, System Fault				
Communication Ports		RS232, RS485, Parallel, LBS, BMS, Dry contact port, Relay card (Optional), SNMP card (Optional), Battery temperature sensor (Optional)				
<b>SYSTEM FEATURES</b>						
Overheat		Line Mode: Switch to Bypass; Backup Mode: Shut down UPS immediately				
Self-diagnostics		Upon Power On and Software Control				
Generator Input		Support				
EPO		Shut down UPS immediately				
<b>ENVIRONMENTAL</b>						
Operating Temperature (°C)		0~40				
Storage Temperature (°C)		-25~55				
Humidity Range		0~95% (Non condensing)				
Altitude (m)		<1000, derating required when >1000				
Noise Level (dB)		<58		<61		
<b>PHYSICAL</b>						
Dimension WxDxH (mm)	UPS Cabinet	600×1000×2000				
	Power Module	440×620×86 (2U)				
Weight (kg)	UPS Cabinet (Without battery)	310 (MAX.)				
	Power Module	10kVA: 19; 15~30kVA: 21				
<b>STANDARDS</b>						
Safety		IEC/EN 62040-1, IEC/EN 62477-1				
EMC		IEC/EN 62040-2 (IEC 61000-2-2, IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, IEC 61000-4-8, IEC 61000-4-11)				
Performance		IEC 62040-3: 2021, EN IEC 62040-3: 2021				

\* 3+1 means 1 power modules are used as redundancy module

\* This efficiency is a typical value measured under standard test conditions and may vary slightly depending on the actual operating environment and conditions.

1. Specifications are subject to change without prior notice

2. Data above are typical values for reference only, not as a basis for engineering design

# HPM3300E Subrack 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



Stand-alone installation with wheels as standard, for easy movement.



Rack-mounted installation compact design, saving valuable unit space.

## Features

### Modular Design

- ◆ All units adopt modular design, including power module, bypass module, monitoring module, can be easily integrated
- ◆ 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

### Green and Power Saving

- ◆ High input power factor, it is up to 0.99
- ◆ 3-level topology design, online efficiency 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 Capability\*

- ◆ 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

- ◆ Standard colorful touch screen
- ◆ Support recording and exporting history logs and fault logs
- ◆ Support SNMP, RS232, RS485, Dry contact interface
- ◆ Support upgrading FW&SW on line (In bypass mode)
- ◆ 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

\*This series of products are not compatible with energy feedback loads, including but not limited to CT machines in the medical field, cutting machines in the semiconductor industry, and all types of elevators as well as other motor-driven equipment that incorporate energy feedback inverters at the front end.

## Technical Specifications

MODEL		HPM3300E-20	HPM3300E-40	HPM3300E-60	HPM3300E-30	HPM3300E-60	HPM3300E-90
Capacity (VA/W)	UPS Cabinet	10~20k	10~40k	10~60k	15~30k	15~60k	15~90k
	Module	10					
	Max. Number	2	4	6	2	4	6
MODEL		HPM3300E-40	HPM3300E-80	HPM3300E-120	HPM3300E-50	HPM3300E-100	HPM3300E-150
Capacity (VA/W)	UPS Cabinet	20~40k	20~80k	20~120k	25~50k	25~100k	25~150k
	Module	20					
	Max. Number	2	4	6	2	4	6
MODEL		HPM3300E-60		HPM3300E-120		HPM3300E-150	
Capacity (VA/W)	UPS Cabinet	30~60k		30~120k		30~150k	
	Module	30					
	Max. Number	2		4		5+1	
<b>INPUT</b>							
Nominal Voltage (Vac)		380/400/415 (3Ph+N+PE)					
Operating Voltage Range (Vac)		138~305 for 40% load; 305~485 for 100% load					
Power Factor		≥0.99					
Harmonic Distortion (THDi)		≤3% (100% Linear load)					
Bypass Voltage Range (Vac)		Max. voltage: 220: +25% (Optional +10%, +15%, +20%) 230: +20% (Optional +10%, +15%) 240: +15% (Optional +10%) Min. voltage: -45% (Optional -10%, -15% -20%, -30%)					
Bypass Frequency Range (Hz)		50/60±10%					
<b>OUTPUT</b>							
Nominal Voltage (Vac)		380/400/415, (3Ph + N + PE)					
Voltage Regulation		±1%					
Output Frequency (Hz)		Line mode: Synchronize with input, when the input frequency >±10% (±1%/±2%/±4%/±5% optional), output 50/60 (±0.1); Bat. mode: (50/60±0.1%)					
Crest Factor		3:1					
Harmonic Distortion (THDv)		≤1% with linear load; ≤3% with nonlinear load					
Overload	Inverter mode	≤110% 60min, ≤125% 10min, ≤150% 1min, >150% 1.2s shut down inverter					
	Bypass mode	30°C: 135% for long term; 40°C: 125% for long term; >1000%, 100ms					
<b>EFFICIENCY*</b>							
AC Mode		Up to 95.8%					
ECO Mode		Up to 99%					
HECO Mode		Up to 99%					
<b>BATTERY</b>							
Battery Type		VRLA (Lead acid maintenance free battery)					
Battery Voltage (Vdc)		±180/192/204/216/228/240/252/264/276/288/300 (30/32/34/36/38/40/42/44/46/48/50pcs, 36pcs default, 36~50pcs output power factor 1.0, 32~34pcs output power factor 0.9, 30pcs output power factor 0.8)					
Charging Current (Max.)(A)		18					
<b>MANAGEMENT</b>							
LCD Display		Line voltage, Bypass Mode, Battery Low, Battery Fault, Overload & UPS Fault					
Alarm		Line Failure, Battery Low, Overload, System Fault					
Communication Ports		RS232, RS485, Parallel, LBS, BMS, Dry contact port, Relay card (Optional), SNMP card (Optional), Battery temperature sensor (Optional)					
<b>SYSTEM FEATURES</b>							
Overheat		Line Mode: Switch to Bypass; Backup Mode: Shut down UPS immediately					
Self-diagnostics		Upon Power On and Software Control					
Generator Input		Support					
EPO		Shut down UPS immediately					
<b>ENVIRONMENTAL</b>							
Operating Temperature (°C)		0~40					
Storage Temperature (°C)		-25~55					
Humidity Range		0~95% (Non condensing)					
Altitude (m)		<1000, derating required when >1000					
Noise Level (dB)		<58		<60		<62	
<b>PHYSICAL</b>							
Dimension WxDxH (mm)	UPS Cabinet	485×850×353 (8U)		485×850×575 (13U)		485×850×752 (17U)	
	Power Module	440×620×86 (2U)					
Weight (kg)	UPS Cabinet	69		79		98	
	Power Module	10kVA: 19; 15~30kVA: 21					
<b>STANDARDS</b>							
Safety		IEC/EN 62040-1, IEC/EN 62477-1					
EMC		IEC/EN 62040-2 (IEC 61000-2-2, IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, IEC 61000-4-8, IEC 61000-4-11)					
Performance		IEC 62040-3: 2021, EN IEC 62040-3: 2021					

\*This efficiency is a typical value measured under standard test conditions and may vary slightly depending on the actual operating environment and conditions.

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2. Data above are typical values for reference only, not as a basis for engineering design

# HPM3300E Subrack Modular Series

## Online Transformerless UPS Series

Power range: 40~200kVA (3-Level PF: 1.0)

Mode: 3 phase input and 3 phase output

Module: 40/50/60kVA



## Features

### Modular Design

- ◆ All units adopt modular design, including power module, bypass module, monitoring module, can be easily integrated
- ◆ 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

### Green and Power Saving

- ◆ High input power factor, it is up to 0.99
- ◆ 3-level topology design, online efficiency 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

### VRLA & Lithium Battery Supportable

- ◆ Compatible with VRLA or lithium battery

### Parallel Redundancy Function

- ◆ Support parallel expanded operation: maximum is 6 units
- ◆ Support sharing batteries for the UPS in parallel

### Strong Load Capability\*

- ◆ 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

- ◆ Standard colorful touch screen
- ◆ Support recording and exporting history logs and fault logs
- ◆ Support SNMP, RS232, RS485, Dry contact interface
- ◆ Support upgrading FW&SW on line (In bypass mode)

### Compatible with Generator

- ◆ Power Walk In function, it can reduce the start current impact to system, and it can reduce the capacity of generator

\*This series of products are not compatible with energy feedback loads, including but not limited to CT machines in the medical field, cutting machines in the semiconductor industry, and all types of elevators as well as other motor-driven equipment that incorporate energy feedback inverters at the front end.

## Technical Specifications

MODEL		HPM3300E-80	HPM3300E-120	HPM3300E-200	HPM3300E-100	HPM3300E-150	HPM3300E-200	HPM3300E-120
Capacity (VA/W)	UPS Cabinet	40k~80k	40k~120k	40k~200k	50k~100k	50k~150k	50k~200k	60k~120k
	Module	40			50			60
	Max. Number	2+1	3	5	2+1	3	4/4+1	2+1
<b>INPUT</b>								
Nominal Voltage (Vac)		380/400/415 (3Ph+N+PE)						
Operating Voltage Range (Vac)		138~305 for 40% load; 305~485 for 100% load						
Power Factor		≥0.99						
Harmonic Distortion (THDi)		≤3% (100% Linear load)						
Bypass Voltage Range (Vac)		Max. voltage: 220: +25% (Optional+10%, +15%, +20%) 230: +20% (Optional+10%, +15%) 240: +15% (Optional+10%) Min. voltage: -45% (Optional-10%, -15% -20%, -30%)						
Bypass Frequency Range (Hz)		50/60±10%						
<b>OUTPUT</b>								
Nominal Voltage (Vac)		380/400/415, (3Ph+N+PE)						
Voltage Regulation		±1%						
Output Frequency (Hz)		Line mode: Synchronize with input, when the input frequency >±10% (±1%/±2%/±4%/±5% optional), output 50/60 (±0.1); Bat. mode: (50/60±0.1%)						
Crest Factor		3:1						
Harmonic Distortion (THDv)		≤2% with linear load; ≤4% with nonlinear load						
Overload	Inverter mode	≤110% 60min, ≤125% 10min, ≤150% 1min, >150% 1.2s shut down inverter						
	Bypass mode	30°C: 135% for long term; 40°C: 125% for long term; >100%, 100ms						
<b>EFFICIENCY*</b>								
AC Mode		Up to 96%						
ECO Mode		Up to 99%						
HECO Mode		Up to 99%						
<b>BATTERY</b>								
Battery Type		VRLA/Li-ion						
Battery Voltage (Vdc)		360~600						
Charging Current (Max.)(A)		20						
<b>MANAGEMENT</b>								
LCD Display		Line voltage, Bypass Mode, Battery Low, Battery Fault, Overload & UPS Fault						
Alarm		Line Failure, Battery Low, Overload, System Fault						
Communication Ports		RS232, RS485, Parallel, LBS, BMS, Dry contact port, Relay card (Optional), SNMP card (Optional), Battery temperature sensor (Optional)						
<b>SYSTEM FEATURES</b>								
Overheat		Line Mode: Switch to Bypass; Backup Mode: Shut down UPS immediately						
Self-diagnostics		Upon Power On and Software Control						
Generator Input		Support						
EPO		Shut down UPS immediately						
<b>ENVIRONMENTAL</b>								
Operating Temperature (°C)		0~40						
Storage Temperature (°C)		-25~55						
Humidity Range		0~95% (Non condensing)						
Altitude (m)		<1000, derating required when >1000						
Noise Level (dB)		<57	<58	<65	<58	<62	<65	<62
<b>PHYSICAL</b>								
Dimension WxDxH (mm)	UPS Cabinet	485×850×620		485×965×887		485×850×620		485×965×887
	Power Module	440×620×130						
Weight (kg)	UPS Cabinet	103		204		113		210
	Power Module	33				34		35
<b>STANDARDS</b>								
Safety		IEC/EN 62040-1, IEC/EN 62477-1						
EMC		IEC/EN 62040-2 (IEC 61000-2-2, IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, IEC 61000-4-8, IEC 61000-4-11)						
Performance		IEC 62040-3: 2021, EN IEC 62040-3: 2021						

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## 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



## Features

### Modular Design

- ◆ All units adopt modular design, including power module, bypass module, monitoring module, can be easily integrated
- ◆ 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

### Green and Power Saving

- ◆ High input power factor, it is up to 0.99
- ◆ 3-level topology design, online efficiency 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 Capability\*

- ◆ 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, Dry contact interface
- ◆ Support upgrading FW&SW on line (In bypass mode)
- ◆ 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

MODEL		HPM3300E-30	HPM3300E-50	HPM3300E-45	HPM3300E-75
Capacity (VA/W)	UPS Cabinet	30k	50k	45k	75k
	Module	10		15	
	Max. Number	3	5	3	5
MODEL		HPM3300E-60	HPM3300E-100	HPM3300E-50	HPM3300E-125
Capacity (VA/W)	UPS Cabinet	60k	100k	50k	125k
	Module	20		25	
	Max. Number	3	5	2+1 (Redundancy)	5
MODEL		HPM3300E-60		HPM3300E-150	
Capacity (VA/W)	UPS Cabinet	60k		150k	
	Module	30			
	Max. Number	2+1 (Redundancy)		5	
<b>INPUT</b>					
Nominal Voltage (Vac)		380/400/415 (3Ph+N+PE)			
Operating Voltage Range (Vac)		138~305 for 40% load; 305~485 for 100% load			
Power Factor		≥0.99			
Harmonic Distortion (THDi)		≤3% (100% Linear load)			
Bypass Voltage Range (Vac)		Max. voltage: 220: +25% (Optional +10%, +15%, +20%) 230: +20% (Optional +10%, +15%) 240: +15% (Optional +10%) Min. voltage: -45% (Optional -10%, -15% -20%, -30%)			
Bypass Frequency Range (Hz)		50/60±10%			
<b>OUTPUT</b>					
Nominal Voltage (Vac)		380/400/415 (3Ph + N + PE)			
Voltage Regulation		±1%			
Output Frequency (Hz)		Line mode: Synchronize with input, when the input frequency >±10% (±1%/±2%/±4%/±5% optional), output 50/60 (±0.1); Bat. mode: (50/60±0.1%)			
Crest Factor		3:1			
Harmonic Distortion (THDv)		≤1% with linear load; ≤3% with nonlinear load			
Overload	Inverter mode	≤110% 60min, ≤125% 10min, ≤150% 1min, >150% 1.2s shut down inverter			
	Bypass mode	30°C: 135% for long term; 40°C: 125% for long term; >100%, 100ms			
<b>EFFICIENCY*</b>					
AC Mode		Up to 95.8%			
ECO Mode		Up to 99%			
HECO Mode		Up to 99%			
<b>BATTERY</b>					
Battery Type		VRLA (Lead acid maintenance free battery)			
Battery Voltage (Vdc)		±180/192/204/216/228/240/252/264/276/288/300 (30/32/34/36/38/40/42/44/46/48/50pcs, 36pcs default, 36~50pcs output power factor 1.0, 32~34pcs output power factor 0.9, 30pcs output power factor 0.8)			
Charging Current (Max.)(A)		18			
<b>MANAGEMENT</b>					
LCD Display		Line voltage, Bypass Mode, Battery Low, Battery Fault, Overload & UPS Fault			
Alarm		Line Failure, Battery Low, Overload, System Fault			
Communication Ports		RS232, RS485, Parallel, LBS, BMS, Dry contact port, Relay card (Optional), SNMP card (Optional), Battery temperature sensor (Optional)			
<b>SYSTEM FEATURES</b>					
Overheat		Line Mode: Switch to Bypass; Backup Mode: Shut down UPS immediately			
Self-diagnostics		Upon Power On and Software Control			
Generator Input		Support			
EPO		Shut down UPS immediately			
<b>ENVIRONMENTAL</b>					
Operating Temperature (°C)		0~40			
Storage Temperature (°C)		-25~55			
Humidity Range		0~95% (Non condensing)			
Altitude (m)		<1000, derating required when >1000			
Noise Level (dB)		<58		<61	
<b>PHYSICAL</b>					
Dimension WxDxH (mm)	UPS Cabinet	600×850×1200			
	Power Module	440×620×86 (2U)			
Weight (kg)	UPS Cabinet	130~145		145~170	
	Power Module	10kVA: 19; 15~30kVA: 21			
<b>STANDARDS</b>					
Safety		IEC/EN 62040-1, IEC/EN 62477-1			
EMC		IEC/EN 62040-2 (IEC 61000-2-2, IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, IEC 61000-4-8, IEC 61000-4-11)			
Performance		IEC 62040-3: 2021, EN IEC 62040-3: 2021			

\*This efficiency is a typical value measured under standard test conditions and may vary slightly depending on the actual operating environment and conditions.

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# HPM3300E Modular Series

## Online Transformerless UPS Series

Power range: 40~1200kVA (3-Level PF: 1.0)

Mode: 3 phase input and 3 phase output

Module: 40/50/60kVA



## Features

### Modular Design

- ◆ All units adopt modular design, including power module, bypass module, monitoring module, can be easily integrated
- ◆ 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

### Green and Power Saving

- ◆ High input power factor, it is up to 0.99
- ◆ 3-level topology design, online efficiency 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

### VRLA & Lithium Battery Supportable

- ◆ Compatible with VRLA or lithium battery

### Parallel Redundancy Function

- ◆ Support parallel expanded operation: maximum is 6 units
- ◆ Support sharing batteries for the UPS in parallel

### Strong Load Capability\*

- ◆ 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 upgrading FW&SW on line (In bypass mode)
- ◆ 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

\*This series of products are not compatible with energy feedback loads, including but not limited to CT machines in the medical field, cutting machines in the semiconductor industry, and all types of elevators as well as other motor-driven equipment that incorporate energy feedback inverters at the front end.

## Technical Specifications

MODEL		HPM3300E-80/120/200/320	HPM3300E-200/300/400/500/600/800/1000	HPM3300E-300/600/840/1080/1200
Capacity (VA/W)	UPS Cabinet	80~320k	200~1000k	300~1200k
	Module	40	50	60
	Max. Number	2/3/5/8	4/6/8/10/12/16/20	5/10/14/18/20
Max. Parallel Number		6		
<b>INPUT</b>				
Nominal Voltage (Vac)		380/400/415, (3Ph+N+PE)		
Operating Voltage Range (Vac)		138~305 for 40% load; 305~485 for 100% load		
Power Factor		≥0.99		
Harmonic Distortion (THDi)		≤3% (100% Linear load)		
Bypass Voltage Range (Vac)		Max. voltage: 220: +25% (Optional+10%, +15%, +20%) 230: +20% (Optional+10%, +15%) 240: +15% (Optional+10%) Min. voltage: -45% (Optional-10%, -15% -20%, -30%)		
Bypass Frequency Range (Hz)		50/60±10%		
<b>OUTPUT</b>				
Nominal Voltage (Vac)		380/400/415 (3Ph+N+PE)		
Voltage Regulation		±1%		
Output Frequency (Hz)		Line mode: Synchronize with input, when the input frequency >±10% (±1%/±2%/±4%/±5% optional), output 50/60 (±0.1z); Bat. mode: (50/60±0.1%)		
Crest Factor		3:1		
Harmonic Distortion (THDv)		≤2% with linear load; ≤4% with nonlinear load		
Overload	Inverter mode	≤110% 60min, ≤125% 10min, ≤150% 1min, >150% 1.2s shut down inverter		
	Bypass mode	30°C: 135% for long term; 40°C: 125% for long term; >100%, 100ms		
<b>EFFICIENCY*</b>				
AC Mode		Up to 96%		
ECO Mode		Up to 99%		
HECO Mode		Up to 99%		
<b>BATTERY</b>				
Battery Type		VRLA/Li-ion		
Battery Voltage (Vdc)		360~600		
Charging Current (Max.)(A)		20		
<b>MANAGEMENT</b>				
LCD Display		Line voltage, Bypass Mode, Battery Low, Battery Fault, Overload & UPS Fault		
Alarm		Line Failure, Battery Low, Overload, System Fault		
Communication Ports		RS232, RS485, Parallel, LBS, BMS, Dry contact port, Relay card (Optional), SNMP card (Optional), Battery temperature sensor (Optional)		
<b>SYSTEM FEATURES</b>				
Overheat		Line Mode: Switch to Bypass; Backup Mode: Shut down UPS immediately		
Self-diagnostics		Upon Power On and Software Control		
Generator Input		Support		
EPO		Shut down UPS immediately		
<b>ENVIRONMENTAL</b>				
Operating Temperature (°C)		0~40		
Storage Temperature (°C)		-25~55		
Humidity Range		0~95% (Non condensing)		
Altitude (m)		<1000, derating required when >1000		
Noise Level (dB)		<66	<73	
<b>PHYSICAL</b>				
Dimension WxDxH (mm)	UPS Cabinet (S/F)	80/120kVA: 600×850×1200 200/320kVA: 600×850×2000	200/300/400kVA: 600×850×2000 500/600kVA: 1200×850×2000 800/1000kVA: 2000×850×2000	300kVA: 600×850×2000; 600kVA: 1200×850×2000 840/1080kVA: 2000×850×2000; 1200kVA: 2200×850×2000
	Power Module	440×620×130		
Weight (kg)	UPS Cabinet	80kVA: 155; 120kVA: 165; 200kVA: 270; 320kVA: 290	200kVA: 270; 300kVA: 290; 400kVA: 310; 500kVA: 650; 600kVA: 720; 800kVA: 980; 1000kVA: 1080	300kVA: 290; 600kVA: 720; 800kVA: 980; 1080kVA: 1080; 1200kVA: 1200
	Power Module	33	34	35
<b>STANDARDS</b>				
Safety		IEC/EN 62040-1, IEC/EN 62477-1		
EMC		IEC/EN 62040-2 (IEC 61000-2-2, IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, IEC 61000-4-8, IEC 61000-4-11)		
Performance		IEC 62040-3: 2021, EN IEC 62040-3: 2021		

\*This efficiency is a typical value measured under standard test conditions and may vary slightly depending on the actual operating environment and conditions.

S: Without or only with one maintenance bypass switch

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

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# HPM3300E Modular Series

## Online Transformerless UPS Series

Power range: 400~1200kVA (3-Level PF: 1.0)

Mode: 3 phase input and 3 phase output

Module: 100kVA



## Features

### Modular Design

- ◆ All units adopt modular design, including power module, bypass module, monitoring module, can be easily integrated
- ◆ 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 323V
- ◆ 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

### Green and Power Saving

- ◆ High input power factor, it is up to 0.99
- ◆ 3-level topology design, online efficiency up to 97%
- ◆ THDi<3% (100% linear load)
- ◆ The UPS will work in sleeping mode when the load is very small

### HECO Mode

- ◆ High performance mode, system efficiency up to 99%
- ◆ Inverter is in working state and has reactive power compensation and active power filter functions, improving input power factor and quality
- ◆ Automatic adjustment of inverter control mode to power the load when bypass is abnormal

### VRLA & Lithium Battery Supportable

- ◆ Compatible with VRLA or lithium battery

### Parallel Redundancy Function

- ◆ Support parallel expanded operation: 6 units max
- ◆ Support sharing batteries for the UPS in parallel

### Strong Load Capability\*

- ◆ 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, more than 0.7 PF without derating

### 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 upgrading FW&SW on line (In bypass mode)
- ◆ EPO & REPO function
- ◆ Support wave recording when fault occurs
- ◆ Support key components lifecycle management

### Compatible with Generator

- ◆ Power Walk In function, it can reduce the start current impact to system, and it can reduce the capacity of generator

### LBS Function

- ◆ LBS function can realize 2 independent UPS system work in synchronization, and it enhances the reliability of the system

\*This series of products are not compatible with energy feedback loads, including but not limited to CT machines in the medical field, cutting machines in the semiconductor industry, and all types of elevators as well as other motor-driven equipment that incorporate energy feedback inverters at the front end.

## Technical Specifications

MODEL		HPM3300E-400	HPM3300E-500	HPM3300E-600	HPM3300E-800	HPM3300E-1000	HPM3300E-1200
Capacity (VA/W)	UPS Cabinet	400k	500k	600k	800k	1000k	1200k
	Module	100k					
	Max. Number	4	5	6	8	10	12
Max. Parallel Number		6			4		
<b>INPUT</b>							
Nominal Voltage (Vac)		380/400/415 (3Ph+N+PE)					
Operating Voltage Range (Vac)		138~324 for 40% Load; 323~485 for 100% Load;					
Power Factor		≥0.99					
Harmonic Distortion (THDi)		≤3% (100% Linear load)					
Bypass Voltage Range (Vac)		Max. voltage: 220: +25% (Optional+10%, +15%, +20%) 230: +20% (Optional+10%, +15%) 240: +15% (Optional+10%) Min. voltage: -45% (Optional -10%, -15% -20%, -30%)					
Bypass Frequency Range (Hz)		50/60±10%					
<b>OUTPUT</b>							
Nominal Voltage (Vac)		380/400/415, (3Ph+N+PE)					
Voltage Regulation		±1%					
Output Frequency (Hz)		Line mode: ±1%/±2%/±4%/±5%/±10% of the rated frequency (Optional); Bat. mode: 50/60±0.1%					
Crest Factor		3:1					
Harmonic Distortion (THDv)		≤1% with linear load; ≤3% with nonlinear load					
Overload	Inverter Mode	105%~110% overload for 60 min; 110%~125% overload for 10 min; 125%~150% overload for 1 min					
	Bypass Mode	125% overload for long term; >1000% overload for 100 ms					
<b>EFFICIENCY*</b>							
AC Mode		Up to 97%					
ECO Mode		Up to 99%					
HECO Mode		Up to 99%					
<b>BATTERY</b>							
Battery Type		VRLA/Li-ion					
Battery Voltage (Vdc)		360~600					
Charging Current (Max.)(A)		100					
<b>MANAGEMENT</b>							
LCD Display		Input, Output, Battery, Command, Setting, Maintenance					
Alarm		Line Failure, Battery Low, Overload, System Fault					
Communication Ports		RS232, RS485x2 (User communication), BAT_T (NTC&RS485), Parallel, LBS, BMS, Dry contact port, Relay card (Optional), SNMP card (Optional), Battery temperature sensor (Optional)					
Dry Contact Ports		*Input (12Vdc): EPO (NO/NC), Battery breaker detection port x3, external maintenance breaker detection port, external output breaker detection port, external bypass breaker detection port, battery grounding detection port, SPD detection port, generator connection detection port and optional port x4. Output: Backfeed (Relay NO/NC), battery breaker tripx3 (24Vdc), optional port (relay)x6"					
<b>SYSTEM FEATURES</b>							
Overheat		Line Mode: Switch to Bypass; Backup Mode: Shut down UPS immediately					
Self-diagnostics		Upon Power On and Software Control					
Generator Input		Support					
EPO		Shut down UPS immediately					
<b>ENVIRONMENTAL</b>							
Operating Temperature (°C)		0~40					
Storage Temperature (°C)		-25~55					
Humidity Range		0~95% (Non condensing)					
Altitude (m)		<1000, derating required when >1000					
Noise Level (dB)		<73		<74		<75	
<b>PHYSICAL</b>							
Dimension WxDxH (mm)	UPS Cabinet(S)	800×1000×2000			800×1000×2000	1400×1000×2000	
	UPS Cabinet(F)				1400×1000×2000	1800×1000×2000	
	Power Module	440×755×130 (3U)					
Weight (kg)	UPS Cabinet(S)	305	330	350	405	690	760
	UPS Cabinet(F)	350	380	410	780	850	920
	Power Module	52.5					
<b>STANDARDS</b>							
Safety		IEC/EN 62040-1, IEC/EN 62477-1					
EMC		IEC/EN 62040-2 (IEC 61000-2-2, IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, IEC 61000-4-8, IEC 61000-4-11)					
Performance		IEC 62040-3: 2021, EN IEC 62040-3: 2021					

\*This efficiency is a typical value measured under standard test conditions and may vary slightly depending on the actual operating environment and conditions.

S: Without or only with one maintenance bypass switch

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

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## Online Transformerless UPS Series

Power range: 200~1200kVA (3-Level PF: 1.0)

Mode: 3 phase input and 3 phase output



## Features

### High Reliability

- ◆ Wide input voltage range, line voltage range is 138-485V, UPS will derate to 40% when input voltage is below 305V
- ◆ Thickened conformal coating, applicable for harsh environment such as high heat, high humidity, dust

### Green and Power Saving

- ◆ High input power factor, it is up to 0.99
- ◆ 3-level topology design, online efficiency 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

### Compatible with Generator

- ◆ Power Walk In function, it can reduce the start current impact to system, and it can reduce the capacity of generator

### VRLA & Lithium Battery Supportable

- ◆ Compatible with VRLA or lithium battery

### Parallel Redundancy Function

- ◆ Support parallel expanded operation: maximum is 6 units
- ◆ Support sharing batteries for the UPS in parallel

### Strong Load Capability\*

- ◆ 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

\*This series of products are not compatible with energy feedback loads, including but not limited to CT machines in the medical field, cutting machines in the semiconductor industry, and all types of elevators as well as other motor-driven equipment that incorporate energy feedback inverters at the front end.

## Technical Specifications

MODEL	HPM3300E -200-T	HPM3300E -250-T	HPM3300E -300-T	HPM3300E -400-T	HPM3300E -500-T	HPM3300E -600-T	HPM3300E -800-T	HPM3300E -1000-T	HPM3300E -1200-T
Capacity (VAW)	200k	250k	300k	400k	500k	600k	800k	1000k	1200k
Max. Parallel Number	6								
<b>INPUT</b>									
Nominal Voltage (Vac)	380/400/415 (3Ph+N+PE)								
Operating Voltage Range (Vac)	138~305 for 40% Load; 305~485 for 100% Load;								
Power Factor	≥0.99								
Harmonic Distortion (THDi)	≤3% (100% Linear load)								
Bypass Voltage Range (Vac)	Max. voltage: 220: +25% (Optional +10%, +15%, +20%) 230: +20% (Optional +10%, +15%) 240: +15% (Optional +10%) Min. voltage: -45% (Optional -10%, -15%, -20%, -30%)								
Bypass Frequency Range (Hz)	50/60±10%								
<b>OUTPUT</b>									
Nominal Voltage (Vac)	380/400/415 (3Ph+N+PE)								
Voltage Regulation	±1%								
Output Frequency (Hz)	Line mode: Synchronize with input, when the input frequency >±10% (±1%/±2%/±4%/±5% optional), output 50/60 (±0.1); Bat. mode: (50/60±0.1%)								
Crest Factor	3:1								
Harmonic Distortion (THDv)	≤2% with linear load; ≤4% with nonlinear load								
Overload	Inverter mode	≤110% 60min, ≤125% 10min, ≤150% 1min, >150% 1.2s shut down inverter							
	Bypass mode	30°C: 135% for long term; 40°C: 125% for long term; >1000%, 100ms							
<b>EFFICIENCY*</b>									
AC Mode	Up to 96%								
ECO Mode	Up to 99%								
HECO Mode	Up to 99%								
<b>BATTERY</b>									
Battery Type	VRLA/Li-ion								
Battery Voltage (Vdc)	360~600								
Charging Current (Max.)(A)	80	100	140	180	200	280	360	400	
<b>MANAGEMENT</b>									
LCD Display	Line voltage, Bypass Mode, Battery Low, Battery Fault, Overload & UPS Fault								
Alarm	Line Failure, Battery Low, Overload, System Fault								
Communication Ports	RS232, RS485, Parallel, LBS, BMS, Dry contact port, Relay card (Optional), SNMP card (Optional), Battery temperature sensor (Optional)								
<b>SYSTEM FEATURES</b>									
Overheat	Line Mode: Switch to Bypass; Backup Mode: Shut down UPS immediately								
Self-diagnostics	Upon Power On and Software Control								
Generator Input	Support								
EPO	Shut down UPS immediately								
<b>ENVIRONMENTAL</b>									
Operating Temperature (°C)	0~40								
Storage Temperature (°C)	-25~55								
Humidity Range	0~95% (Non condensing)								
Altitude (m)	<1000, derating required when >1000								
Noise Level (dB)	<63	<65	<70	<70	<73	<74	<74	<74	<74
<b>PHYSICAL</b>									
Dimension WxDxH (mm)(S/F)	600×850×2000			1200×850×2000			2000×850×2000		2200×850×2000
Weight (kg)	406	440	460	548	965	1060	1422	1658	1980
<b>STANDARDS</b>									
Safety	IEC/EN 62040-1, IEC/EN 62477-1								
EMC	IEC/EN 62040-2 (IEC 61000-2-2, IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, IEC 61000-4-8, IEC 61000-4-11)								
Performance	IEC 62040-3: 2021, EN IEC 62040-3: 2021								

\*This efficiency is a typical value measured under standard test conditions and may vary slightly depending on the actual operating environment and conditions.

S : Without or only with one maintenance bypass switch

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

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# Sustainability Commitment



Pollutant Discharge Permit  
(2016)



Authoritative System  
Certification



Product Certification



1.5 million kW/h  
Annual output of photovoltaic  
power generation system



4.76 kg/a.  
Total lead emission reduction of  
lead fume purification system



96.3%  
Reuse rate of production water

# Success Story



Beijing New Airport Eastern Airlines Base Project



State Grid Project



Core Data Center Project for a Major State-owned Bank's Headquarters



China Unicom Cloud Data Center Project

# Success Story



JD Group Data Center UPS Project



Guangxi Medical University Second Affiliated Hospital Project



BYD Shenzhen&Shantou Plant 1 UPS Power Distribution Project



KL LRT/MRT Project, Malaysia

# Our Solution

## UPS Solution Transformer-less Memopower Series

1~40kVA



## UPS Solution Transformer-less HPM3300E Series

30~1200kVA



## UPS Solution Robust Transformer-based UPS Series

1~800kVA



## Precision Cooling Series

5~300kW



## Data Center Integrated Solution

IDU/IDM/IDB/IOU Series



## Battery Series



## UPS Solution Line Interactive UPS Series

400~3000VA



## UPS Solution Transformer-less YDC3300 Series

10~200kVA



## UPS Solution Transformer-less UL Products Series

1~100kVA



# KSTAR



Website



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



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 High-tech Zone, Shenzhen

Add: Kstar Industrial Park, Zhongkai High-tech Zone, Huizhou, Guangdong

Add: Kstar Industrial Park, Fuyuan Industrial Zone, Guanlan, Shenzhen

Add: CATL-KSTAR Science and Technology Co., Ltd.

Add: Jiangxi Changxin Gold Sunshine Power Co., Ltd.

Add: Jiangsu Kstar Energy Technology Co., Ltd.

Add: KSTAR (Vietnam) Co., Ltd.