

KSTAR

UPS Solution

HPM3300E Series UPS
(30~1200kVA)



Company Profile

Founded in 1993, Shenzhen KSTAR Science and Technology Co., Ltd. (Stock code: 002518) is a global leader in the smart energy field. Kstar focused on the R&D and manufacturing of UPS, Precision Cooling and MDC (Modular Data Center), Battery, PV, ESS and EV Charger.



Founded in: 1993 **30+ years**
Listed in: 2010 **Stock Code:002518**



Key Products



UPS



Cooling & MDC



Battery



PV



ESS



EV Charger



Listed
Listed on SZSE



2
R&D Centers



8
Facilities



180+
180+ Markets



670+
R&D Employees



4300+
4300+ Employees

Market Achievement



Global
UPS Supplier

Data source: Omdia 2024



China UPS Selling
Local Brands

Data source: CCID Consulting
Annual Research Report on China's UPS
Product Market in 2023-2024



China Single-rack Modular
Data Center Market Share

Data source: ICT research
Annual Report on China's Modular Data
Center Product Market in 2023-2024



China Lead-acid
Battery Market Share

Data source: ICT research
Report on China's UPS Supporting Lead-Acid
Battery Product Market in 2023-2024

They Are Using Kstar



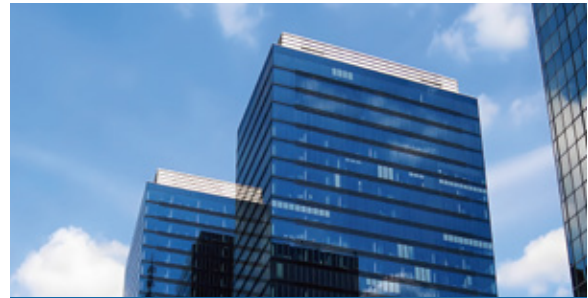
Beijing Olympic Games



Agricultural Bank of China Inner Mongolia Data Center



Shanghai Securities Waigaoqiao Earth Station



China's Leading Internet & E-commerce Giant A



Shanghai Telecom Data Center



Peking University Biomedical Imaging Technology Cluster Large Facility



Jinan Metro



Ruili to Menglian Expressway Electromechanical Project

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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 (Settable)

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 8 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		8				
INPUT						
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%				
OUTPUT						
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				
EFFICIENCY*						
AC Mode		Up to 95.8%				
ECO Mode		Up to 99%				
HECO Mode		Up to 99%				
BATTERY						
Battery Type		VRLA (Lead acid maintenance free battery)				
Battery Voltage (Vdc)		±240 (6×40pcs 9Ah/12V)				
Charging Current (Max.)(A)		18				
MANAGEMENT						
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)				
SYSTEM FEATURES						
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				
ENVIRONMENTAL						
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	
PHYSICAL						
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				
STANDARDS						
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)				

* 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.

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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: 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 (Settable)

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 8 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			15		
	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			25		
	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	
INPUT							
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%					
OUTPUT							
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% forlong term; 40°C: 125% for long term; >1000%, 100ms					
EFFICIENCY*							
AC Mode		Up to 95.8%					
ECO Mode		Up to 99%					
HECO Mode		Up to 99%					
BATTERY							
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					
MANAGEMENT							
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)					
SYSTEM FEATURES							
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					
ENVIRONMENTAL							
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	
PHYSICAL							
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					
STANDARDS							
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)					

*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 (Settable)

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 8 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
INPUT								
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%						
OUTPUT								
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						
EFFICIENCY*								
AC Mode		Up to 96%						
ECO Mode		Up to 99%						
HECO Mode		Up to 99%						
BATTERY								
Battery Type		VRLA/Li-ion						
Battery Voltage (Vdc)		360~600						
Charging Current (Max.)(A)		20						
MANAGEMENT								
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)						
SYSTEM FEATURES								
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						
ENVIRONMENTAL								
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
PHYSICAL								
Dimension WxDxH (mm)	UPS Cabinet	485×850×620		485×965×887	485×850×620		485×965×887	485×850×620
	Power Module	440×620×130						
Weight (kg)	UPS Cabinet	103		204	113		210	110
	Power Module	33			34			35
STANDARDS								
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)						

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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



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 (Settable)

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 8 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

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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	
INPUT					
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%			
OUTPUT					
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			
EFFICIENCY*					
AC Mode		Up to 95.8%			
ECO Mode		Up to 99%			
HECO Mode		Up to 99%			
BATTERY					
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			
MANAGEMENT					
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)			
SYSTEM FEATURES					
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			
ENVIRONMENTAL					
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	
PHYSICAL					
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			
STANDARDS					
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)			

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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 (Settable)



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 8 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		8		
INPUT				
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%		
OUTPUT				
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; >1000%, 100ms		
EFFICIENCY*				
AC Mode		Up to 96%		
ECO Mode		Up to 99%		
HECO Mode		Up to 99%		
BATTERY				
Battery Type		VRLA/Li-ion		
Battery Voltage (Vdc)		360~600		
Charging Current (Max.)(A)		20		
MANAGEMENT				
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)		
SYSTEM FEATURES				
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		
ENVIRONMENTAL				
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	
PHYSICAL				
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
STANDARDS				
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)		

*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 breaker

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

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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 (Settable)

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		
INPUT							
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%					
OUTPUT							
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					
EFFICIENCY*							
AC Mode		Up to 97%					
ECO Mode		Up to 99%					
HECO Mode		Up to 99%					
BATTERY							
Battery Type		VRLA/Li-ion					
Battery Voltage (Vdc)		360~600					
Charging Current (Max.)(A)		100					
MANAGEMENT							
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"					
SYSTEM FEATURES							
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					
ENVIRONMENTAL							
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	
PHYSICAL							
Dimension WxDxH (mm)	UPS Cabinet(S)	800×1000×2000			800×1000×2000	1400×1000×2000	
	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					
STANDARDS							
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)					

*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 breaker

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

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HPM3300E-T Series

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 (Settable)

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 8 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
Capacity (VA/W)		200k	250k	300k	400k
Max. Parallel Number		8			
INPUT					
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%			
OUTPUT					
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			
EFFICIENCY*					
AC Mode		Up to 96%			
ECO Mode		Up to 99%			
HECO Mode		Up to 99%			
BATTERY					
Battery Type		VRLA/Li-ion			
Battery Voltage (Vdc)		360~600			
Charging Current (Max.)(A)		80	100		140
MANAGEMENT					
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)			
SYSTEM FEATURES					
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			
ENVIRONMENTAL					
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
PHYSICAL					
Dimension WxDxH (mm)(S/F)		600×850×2000			
Weight (kg)		406	440	460	548
STANDARDS					
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)			

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S : Without or only with one maintenance bypass breaker

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Technical Specifications

MODEL		HPM3300E-500-T	HPM3300E-600-T	HPM3300E-800-T	HPM3300E-1000-T	HPM3300E-1200-T
Capacity (VA/W)		500k	600k	800k	1000k	1200k
Max. Parallel Number		8				
INPUT						
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%				
OUTPUT						
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				
EFFICIENCY*						
AC Mode		Up to 96%				
ECO Mode		Up to 99%				
HECO Mode		Up to 99%				
BATTERY						
Battery Type		VRLA/Li-ion				
Battery Voltage (Vdc)		360~600				
Charging Current (Max.)(A)		180	200	280	360	400
MANAGEMENT						
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)				
SYSTEM FEATURES						
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				
ENVIRONMENTAL						
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)		<70	<73	<74		
PHYSICAL						
Dimension WxDxH (mm)(S/F)		1200×850×2000		2000×850×2000		2200×850×2000
Weight (kg)		956	1060	1422	1658	1980
STANDARDS						
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)				

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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



Lead-acid Battery Series

3.5~250Ah (12V)

200~3000Ah (2V)



UPS Solution Line Interactive UPS Series

0.4~3kVA



UPS Solution Transformer-less YDC3300 Series

10~200kVA



UPS Solution Transformer-less UL Products Series

1~100kVA





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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 Golden Sunshine Power Co., Ltd.

Add: Jiangsu Kstar Energy Technology Co., Ltd.

Add: KSTAR (Vietnam) Co., Ltd.