

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

















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

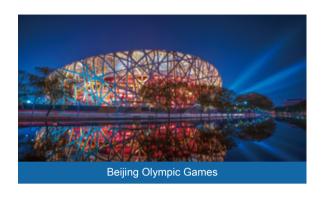
> Data source: ICT research Annual Report on China's Modular Data Center Product Market in 2023-2024



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

















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YDC3300 Series

3:3 phase PF 0.9 (PF 1.0 optional)



Features

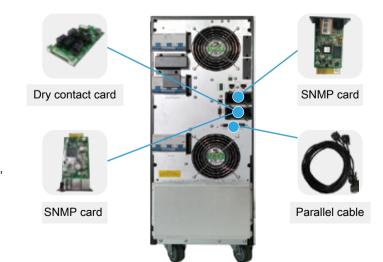
- High power density design
- N+X parallel redundancy, support maximum 4 units in parallel
- Online double conversion with DSP control
- Input current harmonic: <3%
- Wide input voltage range: 208~478Vac
- Wide input frequency range 40~70Hz
- Optimization battery group, the quantity of battery 10~30kVA: 16/18/20pcs (30~50pcs supportable) 40kVA: 30~50pcs
- Maximum charging current up to 20A (Settable)
- Dual input source (Optional for standard unit)
- Colorful 2.4 inch TFT LCD display and 7 inch LCD display LCD are optional
- Versatile LCD human-computer interface
- Generator compatible
- ECO mode operation for energy saving
- · Intelligent fan speed regulation
- · Self-testing when UPS startup
- 50/60Hz frequency converter mode
- Cold start
- The output can meet 100% unbalanced load
- Multiple protection function: short-circuit, overload, overheat, battery overcharge and overdischarge, output low voltage and fan fault alarm
- Multiple communication interface: USB, RS232, RS485, Parallel port, Dry contact, Intelligent slot, SNMP card (Optional), Dry contact card (Optional), Battery temperature sensor (Optional)







Optimized battery configuration 7Ah/9Ah (12V)



MODEL		YDC3310S	YDC3315S	YDC3320S	YDC3330S	YDC3340S				
Capacity (VA/W)		10k/10k	15k/15k 20k/20k		30k/30k	40k/40k				
INPUT										
Nominal Voltage	e (Vac)			380/400/415 (3Ph+N+PE)						
Operating Volta	ige Range (Vac)		305~	478 (Full load); 208~478 (50%	load)					
Power Factor				≥0.99						
Harmonic Disto	rtion (THDi)			≤3% 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 -20%, -30%)								
Bypass Freque	ncy Range (Hz)			50/60±10%						
OUTPUT										
Nominal Voltage	e (Vac)			380/400/415 (3Ph+N+PE)						
Voltage Regula	tion			±1%						
Output Frequen	ncy (Hz)	Line	mode: ±1%/±2%/±4%/±5%/±	10% of the rated frequency (O	otional); Bat. mode: 50/60 (±0.	1%)				
Crest Factor	-			3:1						
Harmonic Disto	rtion (THDv)		≤2%	% Linear load; ≤5% Non linear I	oad					
	AC mode	≤110% 60min, ≤125% 10min, ≤150% 1min, >150% immediately turn to bypass								
Overload	Bat.mode	≤110% 10min, ≤125% 1min, ≤150% 5s, >150% immediately shut down								
EFFICIENCY	1									
AC Mode		Up to 93.5%	Up to	94.5%	Up to 95.2%					
ECO Mode		Up to 98.0%	Up to	98.2%	Up to 98.6%					
BATTERY										
Battery Type			VRLA	(Lead acid maintenance free b	attery)					
Battery Voltage (Vdc)		Chassis 1: ±120 (20pcs 9Ah)(20pcs 7Ah, 2×20pcs 7/9Ah, 3×20pcs 7/9Ah optional) Chassis 2:	±120 (2×2		±120 (3×20pcs 9Ah)(3×20pcs 7Ah optional)	±180 (2×30pcs 9Ah)(2×30pcs 7Ah optional)				
Charrier Comme	+ (Max) (A)	±96Vdc (16pcs 9Ah)		7	4.05	2.7				
Charging Curren		1.35 (2.7 Optional)	2.7 4.05 2.7							
				0.40						
Operating Temp		0~40								
Storage Tempe		-25~55 (No battery)								
Humidity Range	•	0~95% (Non condensing)								
Altitude (m)				00, derating required when>10						
Noise Level (dB)		<55 <58 <61 <6								
PHYSICAL		0								
Dimension		Chassis 1: 250×900×868		250×900×868						
WxDxH (mm)		Chassis 2: 250×645×715				I				
Weight (kg)		Chassis 1: 129 (20pcs 9Ah) Chassis 2: 80 (16pcs 9Ah)	186 (2×20pcs 9Ah)	187 (2×20pcs 9Ah)	236 (3×20pcs 9Ah) 239 (2×30pcs 9					
STANDARDS		,								
Safety		IEC/EN 62040-1, IEC/EN 62477-1								
EMC		IEC/EN 62040 2 /IEC 64000			00-4-6 IEC 61000 4 9 IEC 64	000_4_11 IEC 61000 3 1				
LIVIC		IEC/EN 62040-2 (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, IEC 61000-2-2)								

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MODEL		YDC3310H	YDC3315H	YDC3320H	YDC3330H	YDC3340H				
Capacity (VA/W)		10k/10k	15k/15k	20k/20k	30k/30k	40k/40k				
INPUT										
Nominal Voltage	e (Vac)			380/400/415 (3Ph+N+PE)						
Operating Volta	ge Range (Vac)		305	~478 (Full load); 208~478 (50%	load)					
Power Factor				≥0.99						
Harmonic Distor	rtion (THDi)			≤3% 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 -20%, -30%)								
Bypass Frequer	ncy Range (Hz)			50/60±10%						
OUTPUT										
Nominal Voltage	e (Vac)			380/400/415 (3Ph+N+PE)						
Voltage Regulat	tion			±1%						
Output Frequen	cy (Hz)	Line	mode: ±1%/±2%/±4%/±5%/	±10% of the rated frequency (C	Optional); Bat. mode: 50/60 (±0	.1%)				
Crest Factor				3:1						
Harmonic Distor	rtion (THDv)		≤2	% Linear load; ≤5% Non linear	load					
Overload	AC mode		≤110% 60min, ≤125%	10min, ≤150% 1min, >150% in	nmediately turn to bypass					
Jverioad	Bat.mode	≤110% 10min, ≤125% 1min, ≤150% 5s, >150% immediately shut down								
EFFICIENCY										
AC Mode		Up to 93.5%	Up to	95.2%						
ECO Mode		Up to 98.0%	Up to	Up to	98.6%					
BATTERY										
Battery Type		VRLA (Lead acid maintenance free battery)								
Battery Voltage	()(de)	10~30kVA: ±96/108/120; battery quantity (16~20pcs, 16pcs default, 20pcs no power derating; 18pcs output power factor 0.8/0.9; 16pcs output power factor 0.7/0.8) 40kVA: ±180~300								
Dattery Voltage	(vuc)	±180~300 (30~50pcs)								
Charging Curren	t (Max.)(A)	14	16	18	20	20				
ENVIRONMEN ⁻	TAL	,		·						
Operating Temp	perature (°C)	0~40								
Storage Tempe	rature (°C)	-25~55 (No battery)								
Humidity Range	•	0~95% (Non condensing)								
Altitude (m)		<1000, derating required when>1000								
Noise Level (dB)		<55	<64							
PHYSICAL										
Dimension WxDxH (mm)		250×580×655								
Weight (kg)		35	39 40 43							
STANDARDS				·						
Safety		IEC/EN 62040-1, IEC/EN 62477-1								
EMC		IEC/EN 62040-2 (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, IEC 61000-2-2								

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BT 10-40kVA Battery Pack Specification

MODEL	MP31 BT40120N	YDC3320 BT80120N	YDC3330 BT80120N	YDC3340 BT60180N	YDC3340 BT80240N			
BATTERY SYSTEM								
Battery Type		VRLA	(Lead acid maintenance free b	pattery)				
Typical Battery Recharge Time (hours)			6~8 (To 90% of full capacity)					
Typical Battery Life (years)		3~5, depend of	on discharing cycle and ambier	nt temperature				
System Voltage (Vdc)		±120		±180	±240			
Battery Quantity (pcs)	2×20	4>	2×30	2×40				
Capacity (Ah)			7/9					
PHYSICAL								
Dimension WxDxH(mm)	250×619×616 (With caster) 250×900×868 (With caster)							
Weight (kg)	122/134	244	/265	200/215	244/265			
ENVIRONMENTAL								
Operating Environment (°C)	0~40							
Humidity Range	0~95% (Non condensing)							
Altitude <1000, derating required when				>1000				
Noise Level (dB)	<40							
STANDARDS								
Safety		IE	C/EN 62040-1, IEC/EN 62477	'-1				

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3. Remark: YDC3340 BT80240N "YDC3340" means series; "BT" means Battery Tower cabinet; "80" means battery number inside the cabinet; "240" means the battery system voltage; "N" means battery with neutral connection.

3:3 phase PF 0.9 (PF 1.0 optional)



Features

- Wide input voltage range 138-485Vac (Phase voltage 80-280Vac), no derating when input voltage ≥305Vac
- High input power factor, it is up to 0.99
- 3-level inverter topology, the efficiency can be up to 95.5%
- Support parallel expanded operation: maximum is 6 units
- Support sharing batteries for the UPS in parallel
- Integrated solution, no additional battery cabinet is required, saving construction costs
- Maximum 6 groups of internal batteries, selectable according to autonomy time's requirement

 Output power factor is 1.0, UPS can supply power to 100% unbalanced load

Power range: 50~80kVA

- High adaptability for load, it can connect full inductive load or capacitive load
- Power Walk in function, reduces the start current impact to system, and reduce the capacity of generator
- LBS function can realize 2 independent UPSs work in synchronization, and enhance the reliability of the system
- Support USB, RS485, RS232, SNMP and dry contact card

MODEL		YDC3350S	YDC3360S	YDC3380S					
Capacity (VA/W)		50k/50k	60k/60k	80k/80k					
INPUT									
Nominal Voltage	e (Vac)	380/400/415 (3Ph+N+PE)							
Operating Voltage	ge Range (Vac)		138~305 for 40% load; 305~485 for 100% load						
Power Factor			≥0.99						
Harmonic Distor	tion (THDi)		≤3% 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 -20%, -30%)							
Bypass Frequen	ncy Range (Hz)		50/60±10%						
OUTPUT									
Nominal Voltage	e (Vac)		380/400/415 (3Ph+N+PE)						
Voltage Regulati	ion		±1%						
Output Frequence	cy (Hz)	Line mode: Synchronize with input, when the input	out frequency >±10% (±1%/±2%/±4%/±5% optional)	, output 50/60 (±0.1); Bat. mode: (50/60±0.2%)					
Crest Factor			3:1						
Harmonic Distor	tion (THDv)	≤2% Linear load; ≤4% with non linear load							
Overload	Inverter mode	≤110% 60min, ≤125% 10min, ≤150% 1min, >150% immediately shut down inverter							
	Bypass mode	30°C: 135% for long term; 40°C: 125% for long term; >1000%, 100ms							
EFFICIENCY									
AC Mode		Up to 95.5%							
ECO Mode			Up to 99%						
BATTERY									
Battery Type			VRLA						
Battery Voltage	(Vdc)	±240 (6×40pcs 9Ah/12V)							
Charge Current	(Max.)	20 40							
ENVIRONMENT	ΓAL								
Operating Temp	erature (°C)	0~40							
Storage Temper	ature (°C)	-25~55 (No battery)							
Humidity Range		0~95% (Non condensing)							
Altitude (m)			<1000, derating required when >1000						
Noise Level (dB)		<58	<60	<62					
PHYSICAL									
Dimension WxDxH (mm)			600×1000×2000						
Weight (kg)		740	950	1000					
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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3:3 phase PF 0.9 (PF 1.0 optional)





Features

- Wide input voltage range 138-485Vac (Phase voltage 80-280Vac), no derating when input voltage ≥305Vac
- High input power factor, it is up to 0.99
- 3-level inverter topology, the efficiency can be up to 95.5%
- Support parallel expanded operation: maximum is 6 units
- Support sharing batteries for the UPS in parallel
- Power Walk in function, reduces the start current impact to system, and reduce the capacity of generator

- 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
- Compatible with VRLA or lithium battery
- LBS function can realize 2 independent UPSs work in synchronization, and enhance the reliability of the system
- Support USB, RS485, RS232, SNMP and dry contact card

MODEL		YDC3350H	YDC3360H	YDC3380H	YDC33100H	YDC33120H	YDC33150H	YDC33160H	YDC33180H	YDC33200H	
Capacity (VA/W)		50k/50k	60k/60k	80k/80k	100k/100k	120k/120k	150k/150k	160k/160k	180k/180k	200k/200k	
INPUT											
Nominal Voltage	e (Vac)				380/	400/415 (3Ph+N-	+PE)				
Operating Volta	ge Range (Vac)				138~305 for 40	% load; 305~485	for 100% load				
Power Factor						≥0.99					
Harmonic Distor	rtion (THDi)					≤3% 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 Frequer	ncy Range (Hz)					50/60±10%					
OUTPUT											
Nominal Voltage	e (Vac)				380/	400/415 (3Ph+N-	+PE)				
Voltage Regulat	tion					±1%					
Output Frequen	cy (Hz)	Line mode: S	ynchronize with in	nput, when the in	put frequency >±	10% (±1%/±2%/±	4%/±5% optiona	l), output 50/60 (:	±0.1); Bat. mode:	(50/60±0.2%)	
Crest Factor						3:1					
Harmonic Distor	rtion (THDv)				≤2% with linea	r load; ≤4% with	non linear load				
Overload	Inverter Mode	≤110% 60min, ≤125% 10min, ≤150% 1min, >150% 1.2s shut down inverter ≤125% 1min, >125% 1.2s shut down inverter shut down inverter									
EEE!O!EN!OV	Bypass Mode	30°C: 135% for long term; 40°C: 125% for long term; >1000%, 100ms									
EFFICIENCY		Up to 95.5%									
AC Mode		·									
ECO Mode			Up to 99%								
BATTERY											
Battery Type	0.41.)	VRLA/Li-ion									
Battery Voltage		_				360~600					
Charging Curren		2	20 40 60								
ENVIRONMEN [*]											
Operating Temp		0~40									
Storage Tempe	. ,	-25~55 (No battery)									
Humidity Range		0~95% (Non condensing)									
Altitude (m)			I			ating required wh				1	
Noise Level (dB)	<55	<58	<60	<6	52	<	63	<64	<66	
PHYSICAL											
Dimension WxDxH (mm)			28×868				442×850×1200		1		
Weight (kg)		80	83	144	147	152	190	200	220	230	
STANDARDS											
Safety		IEC/EN 62040-1, IEC/EN 62477-1									
			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 61000-4-1)								

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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

















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 Golden Sunshine Power Co., Ltd.

Add: Jiangsu Kstar Energy Technology Co., Ltd.

Add: KSTAR (Vietnam) Co., Ltd.

E

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