

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

















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

















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YDC3300 Series

3:3 phase PF 0.9 (PF 1.0 optional)



Features

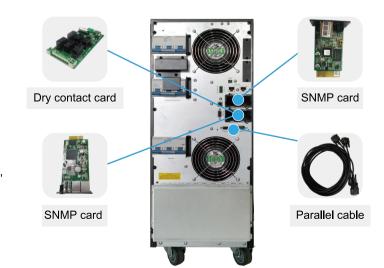
- High power density design
- N+X parallel redundancy, support maximum 4 units in parallel
- Online double conversion with DSP control
- Input current harmonic: <3%
- Wide input voltage range: 208~478Vac
- Wide input frequency range 40~70Hz
- Optimization battery group, the quantity of battery 10~30kVA: 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 Voltag	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 Vo l tage	Range (Vac)		· ·	220: +25% (Optional +10%, +1 230: +20% (Optional +10%, +' 240: +15% (Optional +10%) -45% (Optional -20%, -30%)			
Bypass Freque	ncy Range (Hz)			50/60±10%			
DUTPUT							
Nominal Voltag	e (Vac)			380/400/415 (3Ph+N+PE)			
/oltage Regula	tion			±1%			
Output Frequer	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 l	oad		
	AC mode		≤110% 60min, ≤125% 1		mediately turn to bypass		
Overload	Bat.mode		≤110% 10min, ≤125	5% 1min, ≤150% 5s, >150% im	mediately shut down		
FFICIENCY							
AC Mode		Up to 93.5%	Up to	94.5%	Up to 95.2%		
CO 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)	±120 (2×20pcs 9Ah) (2×20pcs 7Ah, 3×20pcs 7/9Ah optional)		±120 (3×20pcs 9Ah)(3×20pcs 7Ah	±180 (2×30pcs 9Ah)(2×30pcs 7Ah	
		Chassis 2: ±96Vdc (16pcs 9Ah)			optional)	optional)	
Charging Curren	nt (Max.)(A)	1.35 (2.7 Optional)	2.7		4.05	2.7	
ENVIRONMEN	TAL						
Operating Temp	perature (°C)			0~40			
Storage Tempe	rature (°C)			-25~55 (No battery)			
lumidity Range	9			0~95% (Non condensing)			
Altitude (m)			<10	00, derating required when>10	00		
Noise Level (dE	3)	<5	55	<58	<61	<64	
PHYSICAL							
Dimension		Chassis 1: 250×900×868		250×900×868			
VxDxH (mm)		Chassis 2: 250×645×715		230^300^608			
Veight (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 9Ah	
		, ,					
STANDARDS Safety			IF <i>(</i>	C/EN 62040-1, IEC/EN 62477-1			

Specifications are subject to change without prior notice
 Data above are typical values for reference only, not as a basis for engineering design

	<u> </u>							
MODEL		YDC3310H	YDC3315H	YDC3320H	YDC3330H	YDC3340H		
Capacity (VA/W	/)	10k/10k	15k/15k	20k/20k	30k/30k	40k/40k		
INPUT								
Nominal Voltag	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)		_	220: +25% (Optional +10%, +' 230: +20% (Optional +10%, + 240: +15% (Optional +10%) 45% (Optional -20%, -30%)				
Bypass Freque	ncy Range (Hz)			50/60±10%				
OUTPUT								
Nominal Voltag	e (Vac)			380/400/415 (3Ph+N+PE)				
Voltage Regula	tion			±1%				
Output Frequer	ncy (Hz)	Line	mode: ±1%/±2%/±4%/±5%/±	10% of the rated frequency (O	ptional); Bat. mode: 50/60 (±0.	1%)		
Crest Factor				3:1				
Harmonic Disto	rtion (THDv)		≤2%	% Linear load; ≤5% Non linear	load			
O	AC mode	≤110% 60min, ≤125% 10min, ≤150% 1min, >150% immediately turn to bypass						
Overload	Bat.mode		≤110% 10min, ≤125	i% 1min, ≤150% 5s, >150% im	mediately shut down			
EFFICIENCY								
AC Mode		Up to 93.5%	Up to	94.5%	Up to	95.2%		
ECO Mode		Up to 98.0%	Up to	98.6%				
BATTERY								
Battery Type			VRLA	(Lead acid maintenance free b	pattery)			
D-44 \/-k	0/4-)	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						
Battery Voltage	(vuc)	±180~300 (30~50pcs)						
Charging Curren	nt (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	9			0~95% (Non condensing)				
Altitude (m)			<10	000, derating required when>1	000			
Noise Level (dE	3)	<55		<58	<61	<64		
PHYSICAL								
Dimension WxE	DxH (mm)			250×580×655				
Weight (kg)		35	39	40	43	46		
STANDARDS								
Safety	IEC/EN 62040-1, IEC/EN 62477-1							
				000-4-4, IEC 61000-4-5, IEC 61				

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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	oattery)			
Typical Battery Recharge Time (hours)			6~8 (To 90% of full capacity)				
Typical Battery Life (years)		3~5, depend	on discharing cycle and ambie	nt temperature			
System Voltage (Vdc)		±120		±180	±240		
Battery Quantity (pcs)	2×20	4>	<20	2×30	2×40		
Capacity (Ah)			7/9				
PHYSICAL							
Dimension WxDxH(mm)	250×619×616 (With caster)		250×900×868	8 (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	IEC/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 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)		x.voltage: 220: +25% (Optional +10%, +15%, +20% 230: +20% (Optional +10%, +15%) 240: +15% (Optional +10%) 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: Synchronize with input, when the in	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	rtion (THDv)		≤2% Linear load; ≤4% with non linear load				
Overload	Inverter mode	≤110% 60min, ≤125% 10min, ≤150% 1min, >150% immediately shut down inverter					
Overload	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.)	2	0	40			
ENVIRONMEN ³	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	3)	<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

Power range: 50~200kVA

- 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 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)					0% (Optional +10 5% (Optional +10	%, +15%) %)			
Bypass Frequer	ncy Range (Hz)					50/60±10%				
OUTPUT										
Nominal Voltage	e (Vac)				380/	400/415 (3Ph+N-	+PE)			
Voltage Regulat	ion					±1%				
Output Frequen	cy (Hz)	Line mode: Sy	nchronize with in	nput, when the in	put frequency >±	10% (±1%/±2%/±	4%/±5% optiona	I), output 50/60 (:	±0.1); Bat. mode:	(50/60±0.2%)
Crest Factor						3:1				
Harmonic Distor	tion (THDv)				≤2% with linea	r l oad; ≤4% with	non linear load			
Overload Inverter Mode		≤110% 60min, ≤125% 10min, ≤150% 1min, >150% 1.2s shut down inverter								
	Bypass Mode			30°C: 13	5% for long term;	40°C: 125% for lo	ong term; >1000°	%, 100ms		
EFFICIENCY										
AC Mode						Up to 95.5%				
ECO Mode						Up to 99%				
BATTERY										
Battery Type						VRLA/Li-ion				
Battery Voltage	(Vdc)					360~600				
Charging Current	t(Max.)(A)	2	0		40			6	60	
ENVIRONMENT	ΓAL									
Operating Temp	erature (°C)					0 ~ 40				
Storage Temper	rature (°C)				-2	25~55 (No battery	/)			
Humidity Range	1	0~95% (Non condensing)								
Altitude (m)					1000, der	ating required wh	en >1000			
Noise Level (dB)		<55	<58	<60	<6	52	<	63	<64	<66
PHYSICAL										
Dimension WxD		250×828×868 442×850×1200								
	xH (mm)	20002	Weight (kg) 80 83 144 147 152 190 200 220				000	230		
	xH (mm)		83	144	147	152	190	200	220	230
	xH (mm)		83	144	147	152	190	200	220	230
Weight (kg)	xH (mm)		83	144		152 62040-1, IEC/EN		200	220	230

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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: Jiangxi Changxin Golden Sunshine Power Co., Ltd. Add: Jiangsu Kstar Energy Technology Co., Ltd.

Add: KSTAR (Vietnam) Co., Ltd.