

**KSTAR**



YDC3300 Series  
25kVA~100kVA



# YDC3300 Series

Online Transformerless UPS series

Power range : 25~100kVA (3-Level PF: 1.0)

Mode: 3 phase input and 3 phase output



## High reliability design

- Wide input voltage range 132~275Vac(Nominal voltage 220Vac), no derating when input voltage  $\geq$  176Vac.

## Power saving

- High input power factor, it can be up to 0.99.
- 3-level inverter topology, the efficiency can be up to 94%.

## 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 16 pieces to 26 pieces.
- Large charging current can meet the requirement of long time backup.

## Intelligent management

- Support USB, RS485, RS232, SNMP, dry contact card.

## Strong load capacity

- Output power factor is 1.0, UPS can supply power to 100% unbalance load.
- High adaptability for load, it can connect full inductive load or capacitive load.

## 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.

## UL certified

- Compliance to the UL1778 standard ensures the safe operation of the product.

## Technical Specifications:

MODEL	YDC3325S/H	YDC3330S/H	YDC3340H	YDC3350H	YDC3360H	YDC3380H	YDC33100H
Capacity	25kVA/25kW	30kVA/30kW	40kVA/40kW	50kVA/50kW	60kVA/60kW	80kVA/80kW	100kVA/100kW

### INPUT

Nominal voltage	208/120Vac or 220/127Vac (3Ph+N+PE)
Operating voltage range	125–260Vac or 132–275Vac for 50% load; 166–260Vac or 176–275Vac for 100% load
Operating frequency range	40–70Hz (50/60Hz Auto-Sensing)
Power factor	≥0.99
Harmonic distortion (THDi)	≤3% Non linear load
Bypass voltage range	Max. voltage: +25% (Optional +10%, +15%, +20%) Min. voltage: -40% (Optional -10%, -15%, -20%, -30%)
Frequency protection range	50/60Hz ± 10%
Generator input	Support

### OUTPUT

Output voltage	208/120Vac or 220/127Vac (3Ph+N+PE)
Voltage regulation	± 1%
Power factor	1.0
Output frequency	Line Mode: ± 1%/ ± 2%/ ± 4%/ ± 5%/ ± 10% of the rated frequency (Optional) Bat. Mode: 50/60 (± 0.02%)Hz
Crest factor	3:1
Harmonic distortion (THDv)	≤2% Linear load ≤5% Non linear load
Overload	≤110% 60min, ≤125% 10min, ≤150% 1min, > 150% 1.2s shut down inverter

### EFFICIENCY

Efficiency	up to 94%
------------	-----------

### BATTERY

Battery voltage	Standard unit	± 120Vdc (4 × 20pcs 12V9AH)	/			
	Long run unit	± 96/108/120/132/144/156Vdc (16/18/20/22/24/26pcs, 20pcs default, 20–26pcs output power factor 1.0, 18pcs output power factor 0.9, 16pcs output power factor 0.8)				
Charge current	Standard unit	5.4A	/			
	Long run unit	20A Max.	40A Max.	60A Max.	80A Max.	

### SYSTEM FEATURES

Transfer time	Utility to Battery: 0ms; Utility to Bypass: 0ms
Backfeed protection	Support
Alarm	Overload, utility abnormal, UPS fault, battery low, etc
Protection	Short circuit, overload, over temperature, battery low, fan fault alarm
Remote LCD	Support
Communication	USB, RS232, RS485, parallel port, dry contact, intelligent slot, LBS, SNMP card (Optional), relay card (Optional)

### ENVIRONMENTAL

Operating temperature	0–40°C
Storage temperature	-25–55°C (No battery)
Humidity range	0–95% (Non-condensing)
Altitude	< 1000m, derating required when > 1500m
Noise level	< 58dB    < 60dB    < 63dB    < 65dB    < 66dB    < 68dB

### PHYSICAL

Dimension W×D×H	S: 400 × 935 × 1065mm H: 300 × 800 × 1000mm	400 × 935 × 1065mm	442 × 850 × 1200mm	600 × 850 × 1600mm
Net weight	375kg/95kg	380kg/96kg	150kg	160kg    165kg    283kg    321kg

### STANDARDS

Safety	UL1778, CSA 22.2–107.3–14
EMC	FCC Part 15 Subpart B, ANSI C63.4 2014
Energy star	Energy star 2.0

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

**KSTAR**

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

**CONTACT**

Tel: +86-755-86169858

Fax: +86-755-86168482

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

**HEADQUARTERS**

Add: 4/F, No.1 Bldg. Software Park, Keji C. Rd. 2nd, Hi-Tech Industrial Zone, Shenzhen 518057, P.R.China

**FACTORIES ADDRESS**

Add: Kstar Industrial Park, Guangming Hi-Tech Industrial Zone, Shenzhen, P.R.China  
Add: Kstar Industrial Park, Fumin Industrial Zone, Guanlan Town, Shenzhen, P.R.China  
Add: Kstar Industrial Park, Zhongkai Hi-Tech Industrial Zone, Huizhou, P.R. China  
Add: CATL-KSTAR, XiaPu Economic Development Zone, FuJian, P.R. China  
Add: Kstar Industrial Park, Yifeng County Industrial Park, Yichun, Jiangxi, P.R. China  
Add: Kstar (Vietnam) Co., Ltd, in Anyang County, Haiphong City, Vietnam