



YDC3300- II Series 3:3
10kVA ~ 40kVA

Stock code 002518

KSTAR

COMPANY PROFILE

Founded in 1993, Shenzhen KSTAR Science & Technology Co., Ltd (Stock Code: 002518) is a National Torch Plan Key High-tech Enterprise, and also a pioneer of UPS industrial and a total solution provider for Data Center Critical Infrastructure & Photovoltaic Inverter Systems in Mainland China. KSTAR is fully committed to the R&D and has been providing high-quality products with full service to over 90 countries and regions worldwide, leading the industrial development with innovation.



ISO9001



ISO14001



OHSAS18001



IECQ QC080000



KSTAR Industrial Park at Guangming Industrial Zone, Shenzhen, China



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YDC3300- II SERIES 3:3

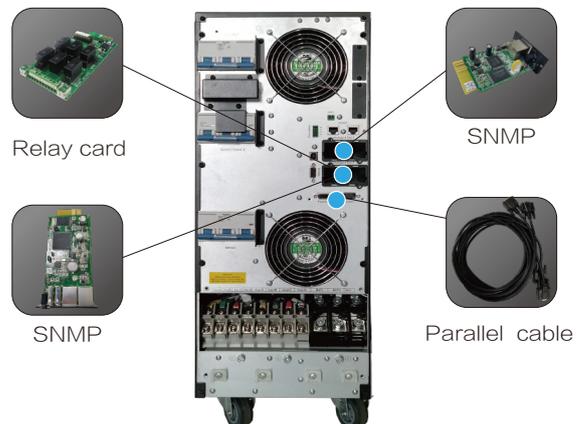
3:3 phase PF 0.9 (PF 1.0 optional)

Power range: 10kVA~40kVA



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 is optional)
 - 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
- 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), Relay card (Optional), Battery temperature sensor (Optional)



Technical Specifications:

| MODEL | YDC3310S/H | YDC3315S/H | YDC3320S/H | YDC3330S/H | YDC3340S/H |
|----------|--------------|----------------|--------------|--------------|--------------|
| Capacity | 10kVA / 9kW | 15kVA / 13.5kW | 20kVA / 18kW | 30kVA / 27kW | 40kVA / 36kW |
| | 10kVA / 10kW | 15kVA / 15kW | 20kVA / 20kW | 30kVA / 30kW | 40kVA / 40kW |

INPUT

| | |
|----------------------------|---|
| Nominal voltage | 380/400/415Vac (3Ph+N+PE) |
| Operating voltage range | 305~478Vac(Full load); 208~478Vac(50% load) |
| Operating frequency range | 40~70Hz (50/60Hz Auto-Sensing) |
| Power factor | ≥0.99 |
| Bypass voltage range | Max.voltage:220V:+25% (Optional+10%,+15%,+20%) 230V:+20% (Optional+10%,+15%) 240V:+15% (Optional+10%) Min.voltage:-45% (Optional-20%,-30%) |
| Frequency protection range | 50/60Hz ± 10% |
| ECO range | Same as bypass |
| Harmonic distortion (THDI) | ≤3% Linear load |

OUTPUT

| | | |
|----------------------------|---|---|
| Output voltage | 380/400/415Vac (3Ph+N+PE) | |
| Voltage regulation | ± 1% | |
| Power factor | 0.9 | |
| Output | Line Mode ± 1%/ ± 2%/ ± 4%/ ± 5%/ ± 10% of the rated frequency (Optional) | |
| Frequency | Bat. Mode 50/60(± 0.1%)Hz | |
| Transfer time | AC mode to Bat.Mode | 0ms |
| | Inverter to Bypass | 0ms |
| Output waveform | Pure Sinewave | |
| Crest factor | 3:1 | |
| Harmonic distortion (THDv) | | ≤2% Linear load |
| | | ≤5% Non linear load |
| Overload | AC mode | ≤ 110%,last 60min; ≤ 125%,last 10min; ≤ 150%,last 1min; > 150% turn to bypass Immediately |
| | Bat.mode | ≤ 110%,last 10min; ≤ 125%,last 1min; ≤ 150%,last 5s; > 150% turn to bypass Immediately |

EFFICIENCY

| | | |
|------------|-------------|-------------|
| Efficiency | up to 93.5% | up to 94.5% |
|------------|-------------|-------------|

BATTERY

| | | | | | |
|--|---------------|---|--|---|---|
| Battery voltage | Standard unit | ± 120Vdc (20pcs 12V9Ah); (20pcs 12V7Ah、2x20pcs 12V7/9Ah optional) | ± 120Vdc (2x20pcs 12V9Ah) (2x20pcs 12V7Ah optional) | ± 120Vdc (3x20pcs 12V9Ah) (3x20pcs 12V7Ah optional) | ± 180Vdc (2x30pcs 12V9Ah) (2x30pcs 12V7Ah optional) |
| | Long run unit | 10~30kVA: ± 96/108/120Vdc; battery quantity(16~20pcs, 16pcs default, Standard unit and 20pcs no power derating;18pcs output power factor 0.8/0.9;16pcs output power factor 0.7/0.8;) 10~30kVA (Optional): ± 180/192/204/216/228/240/252/264/276/288/300Vdc (30/32/34/36/38/40/42/44/46/48/50pcs optional) | | | 40kVA: ± 180/192/204/216 /228/240/252/264/276/288/ 300Vdc(30/32/34/36/38/40/ 42/44/46/48/50pcs) |
| Charge Current (charge current can be set according to battery capacity installed) | Standard unit | 1.35A (2.7Aoptional) | 2.7A | | 4.05A |
| | Long run unit | 14A Max. | 16A Max. | 18A Max. | 20A Max. |

PHYSICAL

| | | | | | |
|-----------------|---------------|-----------------|--------|--------|--------|
| Dimension | Standard unit | 250 x 900 x 868 | | | |
| W × D × H (mm) | Long run unit | 250 x 580 x 655 | | | |
| Net weight (kg) | | 129/35 | 186/39 | 187/40 | 236/43 |

ENVIRONMENTAL

| | | | | |
|-----------------------|-------------------------------------|-------|-------|-------|
| Operating temperature | 0~40°C | | | |
| Storage temperature | -25~55°C (No battery) | | | |
| Humidity range | 0~95% (Non condensing) | | | |
| Altitude | <1500m,derating required when>1500m | | | |
| Noise level | <55dB | <58dB | <61dB | <64dB |

STANDARDS

| | |
|--------|---|
| Safety | IEC/EN62040-1,IEC/EN62477-1 |
| EMC | IEC/EN62040-2,IEC61000-4-2,IEC61000-4-3,IEC61000-4-4,IEC61000-4-5,IEC61000-4-6,IEC61000-4-8 |

Specifications are subject to change without prior notice.

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 battery) | | | |
| Typical battery recharging time | 6–8 hours (to 90% of full capacity) | | | |
| Typical battery life | 3–5 years, depend on discharging cycle and ambient temperature | | | |
| System voltage | ± 120Vdc | | ± 180Vdc | ± 240Vdc |
| Battery quantity | 2 * ± 10 PCS | 4 * ± 10 PCS | 2 * ± 15 PCS | 2 * ± 20 PCS |
| Capacity | 7Ah/9Ah (12V) | | | |

PHYSICAL

| | | | | |
|--------------------------|------------------------------|------------------------------|---------|---------|
| Dimension W x D x H (mm) | 250 x 619 x 616 (With wheel) | 250 x 900 x 868 (With wheel) | | |
| Net weight (kg) | 122/134 | 244/265 | 200/215 | 244/265 |

ENVIRONMENT

| | | | | |
|-----------------------|------------------------|--|--|--|
| Safety | CE | | | |
| Operating environment | 0°C–40°C | | | |
| Relative humidity | 0–95% (Non condensing) | | | |
| Noise level | <40dB at 1 Meter | | | |

Specifications are subject to change without prior notice.

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.

KSTAR

Website: www.kstar.com

CONTACT

Tel: +86-755-86169858

Fax: +86-755-86168482

E-mail: 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.

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Version number: KSD/C&C 2020-11