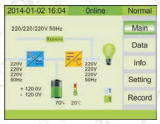
KSTAR

YDC3300 Series
10kVA~20kVA

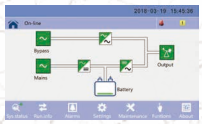
YDC3300 SERIES 3:3

3:3 phase PF 1.0

Power range: 10kVA~20kVA



TFT colourful LCD



7 inch colourful LCD

Features

- High power density design
- N+X parallel redundancy,support maximum 4 units in parallel
- Online double conversion with DSP control
- Input current harmonic: ≤2%
- Wide input voltage range: 72~159Vac
- Wide input frequency range: 40~70Hz
- Optimization battery group, the quantity of battery is 16~24pcs
- Maximum charging current up to 20A (Settable)
- Dual input source
- 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
- Cold start
- 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
Capacity		10kVA / 10kW	15kVA / 15kW	20kVA / 20kW
INPUT				
Nominal voltage		208/120Vac or 220/127Vac (3Ph+N+PE)		
Operating voltage range		96~159Vac (Full load); 72~159Vac (50% load)		
Operating frequency range		40~70Hz (50/60Hz Auto-Sensing)		
Power factor		≥0.99		
Bypass voltage range		Max. voltage: +20% (Optional +10%, +15%, +20%) Min. voltage: -30% (Optional -10%, -20%, -30%)		
Frequency protection range		50/60Hz±10%		
ECO range		Same as bypass		
Harmonic distortion (THDi)		≤2% Non linear load		
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 (±0.1%)Hz		
Transfer time	AC mode to Bat.mode	0ms		
	Inverter to Bypass	0ms		
Output waveform		Pure Sinewave		
Crest factor		3:1		
Harmonic distortion (THDv)		≤1% Linear load ≤3% 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% shutdown UPS immediately		
EFFICIENCY				
Efficiency		up to 94%		
BATTERY				
Battery voltage	Standard unit	±120Vdc (20pcs 12V9AH) (2×20pcs 12V9AH, 3×20pcs 12V9AH optional)	±120Vdc (2×20pcs 12V9AH) (3×20pcs 12V9AH optional)	±120Vdc (3×20pcs 12V9AH)
	Long run unit	±96/±108/±120/±132/±144Vdc		
Charge current	Standard unit	1.35A (2.7/4.05A optional)	2.7A (4.05A optional)	4.05A
	Long run unit	20A Max.		
PHYSICAL				
Dimension	Standard unit	250×900×868mm		
W×D×H	Long run unit	250×580×655mm		
Net weight		136kg/77kg	188kg/78kg	239kg/79kg
ENVIRONMENTAL				
Operating temperature		0~40℃		
Storage temperature		-25~55℃		
Humidity range		0~95% (non-condensing)		
Altitude		<1500m, derating required when>1500m		
Noise level		≤55dB		≤58dB
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		

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

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Version number: KSD/C&C 2023-01