

# 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:  $\leq 2\%$
- 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	
<b>INPUT</b>						
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					
<b>OUTPUT</b>						
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				
<b>EFFICIENCY</b>						
Efficiency	Up to 94%					
<b>BATTERY</b>						
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 / ±144 Vdc				
Charge current	Standard unit	1.35A (2.7/4.05A Optional)	2.7A (4.05A Optional)	4.05A		
	Long run unit	20A Max.				
<b>PHYSICAL</b>						
Dimension (W×D×H)	250×900×868mm					
Net weight	136kg/77kg		188kg/78kg		239kg/79kg	
<b>ENVIRONMENTAL</b>						
Operating temperature	0~40℃					
Storage temperature	-25~55℃					
Humidity range	0~95% (non-condensing)					
Altitude	<1500m, derating required when>1500m					
Noise level	≤55dB				≤58dB	
<b>STANDARDS</b>						
Safety	UL1778, CSA 22.2-107.3-14					
EMC	FCC Part 15 Subpart B, ANSI C63.4 2014					
Energy star	Energy star 2.0					

## YDC BR 10–20kVA battery pack specification

MODEL	YDC-BT80009-10	YDC-BT80009-20
<b>BATTERY SYSTEM</b>		
Battery type	VRLA (Lead acid maintenance free battery)	
Typical battery recharging time	4 hours (To 90% of full capacity)	
Typical battery life	3~5 years, depend on discharging cycle and ambient temperature	
System voltage	± 120Vdc	
Battery quantity	4 × 20 pcs	
Capacity	9Ah (12V)	
<b>PHYSICAL</b>		
Dimension W × D × H	900 × 250 × 868mm	
Net weight	260kg	261kg
<b>ENVIRONMENT</b>		
Operating environment	0°C ~ 40°C	
Relative humidity	0~95% (Non condensing)	
<b>STANDARDS</b>		
Safety	UL1778 5th Edition CSA C22.2 NO.107.3-14	

Specifications are subject to change without prior notice.

Remark: YDC-BT-80009 "YDC"means series;"BT"means Battery Tower;"80"means battery number inside the tower;"009"means the battery capacity. "10"means the battery cabinet for YDC3310, "20"means the battery cabinet for YDC3320

## Transformer specification

MODEL	S3MT-20K480V	S3MT-30K480V
Description	3-Phase 20k Input Isolation Transformer,Delta 480V/208V Wye	3-Phase 30k Input Isolation Transformer,Delta 480V/208V Wye
Transformer Type	Dry-Type	
<b>INPUT</b>		
Input Voltage	480V	
Input Voltage Range	-45%,+25% @ 40% load -20%,+25% @100% load	
Input Connection	3Ph+PE	
Input Connection Type	Terminal Block	
Input Frequency	50/60Hz	
<b>OUTPUT</b>		
Transformer Output Voltage	208/120Vac(3Ph+N+PE)	
Output Connection Type	Terminal Block	
Transformer Output Breaker Rating	80A	125A
Output Watts	20kW	30kW
<b>Efficiency</b>		
Full Load Efficiency	95.00%	95.20%
Half Load Efficiency	96.50%	97.50%
<b>PHYSICAL</b>		
Dimension W × D × H	442*850*1200mm	
Net weight	195kg	280kg
<b>ENVIRONMENT</b>		
Operating temperature	0~40°C	
Storage temperature	-15~60°C	
Humidity range	< 95%	
Altitude	< 1000m, derating required when > 1000m	
Noise level	65dB max	
<b>STANDARDS</b>		
Safety	cTUVus: UL 1778 5th Edition, CSA C22.2 NO.107.3-14	
EMC	FCC Part15 Subpart B / ANSI C63.4 2014	