



YDC3300 Series
10kVA ~ 80kVA

YDC3300- II Series 3:3

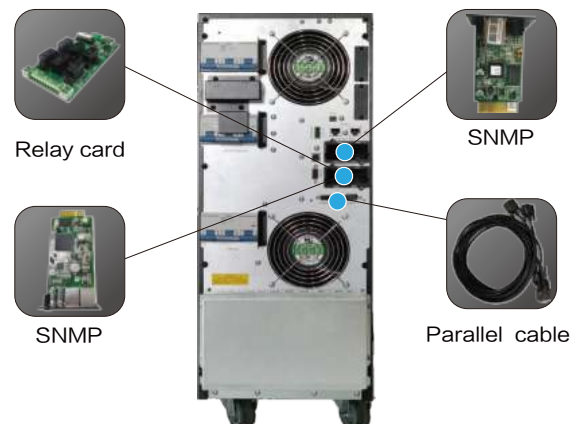
3:3 phase PF 0.9 (PF 1.0 optional)

Power range: 10kVA ~ 80kVA



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), Relay card (Optional), Battery temperature sensor (Optional)



Technical Specifications:

MODEL		YDC3310S/H	YDC3315S/H	YDC3320S/H	YDC3330S/H	YDC3340S/H	YDC3380H
Capacity		10kVA / 9kW	15kVA / 13.5kW	20kVA / 18kW	30kVA / 27kW	40kVA / 36kW	80kVA / 72kW
		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 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)		≤2% Linear load					
		≤5% Non linear load					
Overload	AC mode	≤110% 60min, ≤125% 10min, ≤150% 1min, > 150% immediately turn to bypass					
	Bat.mode	≤110% 10min, ≤125% 1min, ≤150% 5s, > 150% immediately shut down					
EFFICIENCY							
Efficiency		Up to 93.5%		Up to 94.5%			
BATTERY							
Battery voltage	Standard unit	Chassis 1: ± 120Vdc (20pcs 9Ah)(20pcs 7Ah, 2 × 20pcs 7/9Ah, 3 × 20pcs 7/9Ah optional)	± 120Vdc (2 × 20pcs 9Ah) (2 × 20pcs 7Ah, 3 × 20pcs 7/9Ah optional)		± 120Vdc(3 × 20pcs 9Ah)(3 × 20pcs 7Ah optional)	± 180Vdc(2 × 30pcs 9Ah)(2 × 30pcs 7Ah optional)	/
		Chassis 2: ± 96Vdc (16pcs 9Ah)					
	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) ± 180/192/204/216/228/240/252/264/276/288/300Vdc (30/32/34/36/38/40/42/44/46/48/50pcs supportable)					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	Standard unit	1.35A (2.7A Optional)	2.7A		4.05A	2.7A	/
	Long run unit	14A (Max.)	16A (Max.)	18A (Max.)	20A (Max.)	20A (Max.)	30A (Max.)
PHYSICAL							
Dimension W × D × H	Standard unit	Chassis 1: 250 × 900 × 868mm	250 × 900 × 868mm				/
		Chassis 2: 250 × 645 × 715mm					
	Long run unit	250 × 580 × 655mm					360 × 828 × 868mm
Net weight	Standard unit	Chassis 1: 129kg (20pcs 9Ah) Chassis 2: 80kg (16pcs 9Ah)	186kg (2 × 20pcs 9Ah)	187kg (2 × 20pcs 9Ah)	236kg (3 × 20pcs 9Ah)	239kg (2 × 30pcs 9Ah)	/
	Long run unit	35kg	39kg	40kg	43kg	46kg	122kg
ENVIRONMENTAL							
Operating temperature		0 ~ 40℃					
Storage temperature		-25 ~ 55℃ (No battery)					
Humidity range		0 ~ 95% (Non condensing)					
Altitude		<1500m, derating required when>1500m					
Noise level		<55dB		<58dB	<61dB	<64dB	<63dB
STANDARDS							
Safety		IEC/EN 62040-1, IEC/EN 62477-1					
EMC		IEC/EN 62040-2 (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, IEC 61000-2-2)					

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

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 × 20 PCS	4 × 20 PCS		2 × 30 PCS	2 × 40 PCS
Capacity	7Ah/9Ah (12V)				
PHYSICAL					
Dimension W × D × H	250 × 619 × 616mm(With wheel)	250 × 900 × 868mm (With wheel)			
Net weight	122kg/134kg	244kg/265kg		200kg/215kg	244kg/265kg
ENVIRONMENT					
Safety	CE				
Operating environment	0℃ ~ 40℃				
Relative humidity	0 ~ 95% (Non condensing)				
Noise level	< 40dB at 1 Meter				

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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.

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