

YDC3300 Series

3:3 phase PF 0.9 (PF 1.0 optional)

Power range: 10~40kVA



Segment LCD



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: <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), Dry contact card (Optional), Battery temperature sensor (Optional)



Battery cabinet (Optional)



Optimized battery configuration 7Ah/9Ah (12V)



Dry contact card



SNMP card



SNMP card



Parallel cable



Technical Specifications

MODEL		YDC3310S	YDC3315S	YDC3320S	YDC3330S	YDC3340S
Capacity (VA/W)		10k/10k	15k/15k	20k/20k	30k/30k	40k/40k
INPUT						
Nominal Voltage (Vac)		380/400/415 (3Ph+N+PE)				
Operating Voltage Range (Vac)		305~478 (Full load); 208~478 (50% load)				
Power Factor		≥0.99				
Harmonic Distortion (THDi)		≤3% Linear load				
Bypass Voltage Range (Vac)		Max.voltage: 220: +25% (Optional +10%, +15%, +20%) 230: +20% (Optional +10%, +15%) 240: +15% (Optional +10%) Min.voltage: -45% (Optional -20%, -30%)				
Bypass Frequency Range (Hz)		50/60±10%				
OUTPUT						
Nominal Voltage (Vac)		380/400/415 (3Ph+N+PE)				
Voltage Regulation		±1%				
Output Frequency (Hz)		Line mode: ±1%/±2%/±4%/±5%/±10% of the rated frequency (Optional); Bat. mode: 50/60 (±0.1%)				
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						
AC Mode		Up to 93.5%	Up to 94.5%		Up to 95.2%	
ECO Mode		Up to 98.0%	Up to 98.2%		Up to 98.6%	
BATTERY						
Battery Type		VRLA (Lead acid maintenance free battery)				
Battery Voltage (Vdc)	Chassis 1: ±120 (20pcs 9Ah)(20pcs 7Ah, 2×20pcs 7/9Ah, 3×20pcs 7/9Ah optional)	±120 (2×20pcs 9Ah) (2×20pcs 7Ah, 3×20pcs 7/9Ah optional)		±120 (3×20pcs 9Ah)(3×20pcs 7Ah optional)	±180 (2×30pcs 9Ah)(2×30pcs 7Ah optional)	
	Chassis 2: ±96Vdc (16pcs 9Ah)					
Charging Current (Max.)(A)		1.35 (2.7 Optional)	2.7		4.05	2.7
ENVIRONMENTAL						
Operating Temperature (°C)		0~40				
Storage Temperature (°C)		-25~55 (No battery)				
Humidity Range		0~95% (Non condensing)				
Altitude (m)		<1000, derating required when>1000				
Noise Level (dB)		<55		<58	<61	<64
PHYSICAL						
Dimension WxDxH (mm)	Chassis 1: 250×900×868	250×900×868				
	Chassis 2: 250×645×715					
Weight (kg)	Chassis 1: 129 (20pcs 9Ah)	186 (2×20pcs 9Ah)	187 (2×20pcs 9Ah)	236 (3×20pcs 9Ah)	239 (2×30pcs 9Ah)	
	Chassis 2: 80 (16pcs 9Ah)					
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)				
Performance		IEC 62040-3: 2021, EN IEC 62040-3: 2021				

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Technical Specifications

MODEL		YDC3310H	YDC3315H	YDC3320H	YDC3330H	YDC3340H
Capacity (VA/W)		10k/10k	15k/15k	20k/20k	30k/30k	40k/40k
INPUT						
Nominal Voltage (Vac)		380/400/415 (3Ph+N+PE)				
Operating Voltage Range (Vac)		305~478 (Full load); 208~478 (50% load)				
Power Factor		≥0.99				
Harmonic Distortion (THDi)		≤3% Linear load				
Bypass Voltage Range (Vac)		Max.voltage: 220: +25% (Optional +10%, +15%, +20%) 230: +20% (Optional +10%, +15%) 240: +15% (Optional +10%) Min.voltage: -45% (Optional -20%, -30%)				
Bypass Frequency Range (Hz)		50/60±10%				
OUTPUT						
Nominal Voltage (Vac)		380/400/415 (3Ph+N+PE)				
Voltage Regulation		±1%				
Output Frequency (Hz)		Line mode: ±1%/±2%/±4%/±5%/±10% of the rated frequency (Optional); Bat. mode: 50/60 (±0.1%)				
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						
AC Mode		Up to 93.5%	Up to 94.5%		Up to 95.2%	
ECO Mode		Up to 98.0%	Up to 98.2%		Up to 98.6%	
BATTERY						
Battery Type		VRLA (Lead acid maintenance free battery)				
Battery Voltage (Vdc)		10~30kVA: ±96/108/120; battery quantity (16~20pcs, 16pcs default, 20pcs no power derating; 18pcs output power factor 0.8/0.9; 16pcs output power factor 0.7/0.8)				40kVA: ±180~300 (30~50pcs)
		±180~300 (30~50pcs)				
Charging Current (Max.)(A)		14	16	18	20	20
ENVIRONMENTAL						
Operating Temperature (°C)		0~40				
Storage Temperature (°C)		-25~55 (No battery)				
Humidity Range		0~95% (Non condensing)				
Altitude (m)		<1000, derating required when>1000				
Noise Level (dB)		<55		<58	<61	<64
PHYSICAL						
Dimension WxDxH (mm)		250×580×655				
Weight (kg)		35	39	40	43	46
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)				
Performance		IEC 62040-3: 2021, EN IEC 62040-3: 2021				

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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 Recharge Time (hours)	6~8 (To 90% of full capacity)				
Typical Battery Life (years)	3~5, depend on discharging cycle and ambient temperature				
System Voltage (Vdc)	±120			±180	±240
Battery Quantity (pcs)	2×20	4×20		2×30	2×40
Capacity (Ah)	7/9				
PHYSICAL					
Dimension WxDxH(mm)	250×619×616 (With caster)	250×900×868 (With caster)			
Weight (kg)	122/134	244/265		200/215	244/265
ENVIRONMENTAL					
Operating Environment (°C)	0~40				
Humidity Range	0~95% (Non condensing)				
Altitude	<1000, derating required when >1000				
Noise Level (dB)	<40				
STANDARDS					
Safety	IEC/EN 62040-1, IEC/EN 62477-1				

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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.