

## Technical Specifications:

MODEL	YDC3310S/H	YDC3315S/H	YDC3320S/H	YDC3330S/H	YDC3340S/H
Capacity	10kVA / 10kW	15kVA / 15kW	20kVA / 20kW	30kVA / 30kW	40kVA / 40kW
	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%,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%
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### 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)			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	
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			

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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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