



10kVA ~ 40kVA

## MDC 3300 II Series

3:3 Phase PF0.9 (PF 1.0 Optional)

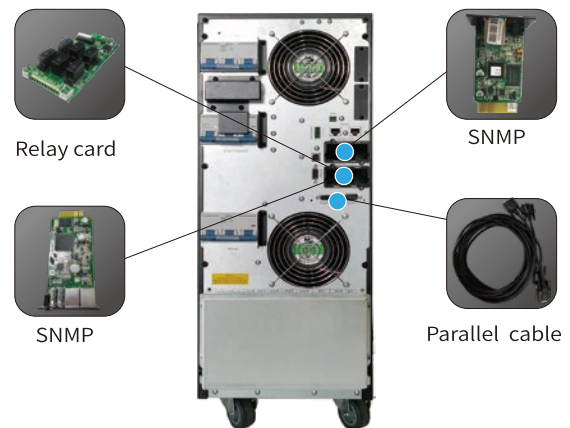
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## Features

- 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)



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### Specifications

Model	MDC 3310 S/H	MDC 3315 S/H	MDC 3320 S/H	MDC 3330 S/H	MDC 3340 S/H
Capacity	10kVA/9kW	15kVA/13.5kW	20kVA/18kW	30kVA/27kW	40kVA/36kW
	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%
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#### BATTERY

Battery voltage	Standard unit	Chassis 1: ±120Vdc (20pcs 9Ah) (20pcs 7Ah, 2×20pcs 7/9Ah, 3×20pcs 7/9Ah optional) Chassis 2: ±96Vdc (16pcs 9Ah)	±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)
	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	Standard unit	1.35A (2.7A optional)	2.7A	4.05A	2.7A
	Long run unit	14A (Max.)	16A (Max.)	18A (Max.)	20A (Max.)

#### PHYSICAL

Dimension W×D×H	Standard unit	Chassis 1: 250×900×868mm Chassis 2: 250×645×715mm	250×900×868mm			
	Long run unit	250×580×655mm				
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

#### 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/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)

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

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## BT 10~40kVA Battery Pack Specification

Model	MP31 BT40120N	MDC 3320 BT80120N	MDC 3330 BT80120N	MDC 3340 BT80120N	MDC 3340 BT80140N
<b>BATTERY SYSTEM</b>					
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)				
<b>PHYSICAL</b>					
Dimension W×D×H	250×619×616mm(With wheel)		250×900×868mm (With wheel)		
Net weight	122kg/134kg	244kg/265kg		200kg/215kg	244kg/265kg
<b>ENVIRONMENT</b>					
Safety	CE				
Operating environment	0°C~40°C				
Relative humidity	0~95% (Non condensing)				
Noise level	<40dB at 1 Meter				

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3. Remark: MDC3340 BT80240N "MDC3340" 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.