



10kVA ~ 40kVA

MDC 3300 II Series

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

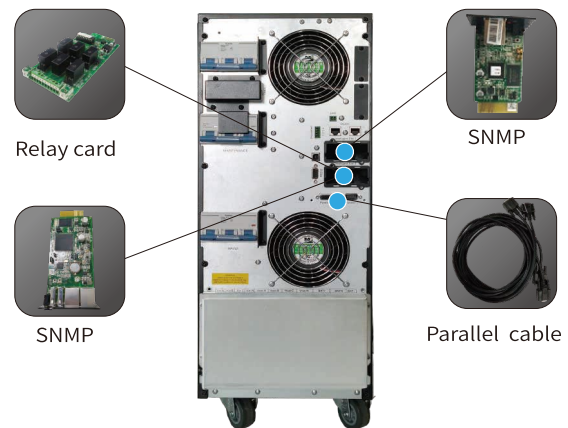
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Features

- 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
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°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.