# MEMOPOWER- **III** Series **▶**



### 3:1 phase PF 0.9

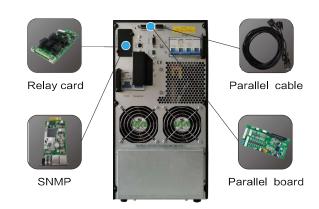
Power range: 10kVA~20kVA



#### **Features**

- · Support parallel function (Optional)
- · Online double conversion with DSP control
- Optimization battery group, the quantity of battery: 16/18/20pcs
- · Wide input voltage range: 208~478Vac
- · Wide input frequency range: 40~70Hz
- Maximum charging current up to 18A (Settable)
- · Support 3/1 and 1/1 operation
- · Generator compatible
- $\cdot$  ECO mode operation for energy saving
- · Design with maintenance switch
- · Cold start
- · Intelligent fan speed regulation
- · Self-testing when UPS startup
- · 50/60Hz frequency converter mode
- · Colorful 2.4 inch TFT LCD display is optional

- Multiple protection function: short-circuit, overload, overheat, battery overcharge and overdischarge, output low voltage and fan fault alarm
- Multiple communication interface: RS232/USB/EPO (Relay card/SNMP card/Parallel kit optional)



## **Technical Specifications:**

MODEL		MP31 10k H MP31 10k S	MP31 15k H MP31 15k S	MP31 20k H MP31 20k S			
Capacity		10kVA/9kW	15kVA/13.5kW	20kVA/18kW			
INPUT							
Nominal voltage			380/400/415Vac (3PH+N+PE) 220/230/240Vac (L+N+PE)				
Operating volta	age range	208~478Vac; 120~276Vac					
Operating frequency range		40~70Hz (50/60Hz Auto-Sensing)					
Bypass voltage range			voltage: 220V: +25% (Optional +10%, +1 230V: +20% (Optional +10%, +1 240V: +15% (Optional +10%) voltage: -45% (Optional -20%, -30%)				
FREQUENCY							
requency pro			50/60Hz ± 10%				
OUTPUT							
Output voltage	2		220/230/240Vac (L+N+PE)				
Voltage regulation		±1%					
Power factor			0.9				
Output frequency Transfer time	Line mode	$\pm 1\%/\pm 2\%/\pm 4\%/\pm 5\%/\pm 10\%$ of the rated frequency (Optional)					
	Bat. mode	(50/60±0.1%)Hz					
	AC mode to Bat.mode						
	Inverter to Bypass						
Output wavefo	orm		Pure Sinewave				
Crest factor			3:1				
Harmonic disto	ortion (THDv)		≤2% Linear load ≤5% Non linear load				
	AC mode	Load≤110%; last 60min turn to bypass; ≤125%: last 10min turn to bypass; ≤150%: last 1min turn to bypass; ≥150%: turn to bypass mode immediately					
Overload	Bat mode	Load≤110%: last	10min; ≤125%: last 1min; ≥125% shut dov	vn UPS immediately			
	Bypass mode	Breaker 2 × 32A	Breaker 2 × 50A	Breaker 2 × 63A			
EFFICIENCY							
Efficiency		Up to 93.5%	Up	to 94%			
BATTERY							
		Chassis 1: ± 120Vdc (20pcs 9Ah)					
Ratteny voltane	Standard unit	(20pcs 7Ah、2×20pcs 7/9Ah optional) Chassis 2: ±96Vdc (16pcs 9Ah) or	,	2 × 20pcs 9Ah) 7Ah optional)			
sattery voltage	Long run unit	± 120Vdc (20pcs 7/9Ah) optional ± 96Vdc ~ ± 120Vdc (16	16~20pcs, 16pcs default, standard unit and 20pcs no power derating;				
			ctor 0.9, 18pcs output power factor 0.8; 16pcs output power factor 0.7)				
Charging curre	ent	14A (Max.) 1.35A (2.7A optional) Charg	16A (Max.) 2.7A ging current can be set according to battery	18A (Max.) 2.7A capacity			
PHYSICAL							
	Standard unit	Chassis 1: 250 × 900 × 868mm Chassis 2: 250 × 645 × 715mm	250×9	00 × 868mm			
Harmonic disternance of the control	Long run unit	Orlassis 2. 200 NO-15 N / ISININI	220 × 531 × 450mm				
	Standard unit	Chassis 1: 114kg (20pcs 9Ah)	167kg (2×20pcs 9Ah)	171kg (2 × 20pcs 9Ah)			
Net weight	Long run unit	Chassis 2: 87kg (20pcs 9Ah) 22kg	24kg	28kg			
ENVIRONMEI		22.19	2 11/9	Long			
Operating tem			0°C ~40°C				
Storage temperature		-25°C ~55°C					
Storage tempe		0~95% (Non condensing)					
- '			0~95% (Non condensing)	<1500m, derating required when > 1500m			
Humidity range			37	1			
Humidity range		< 55dB at	< 1500m, derating required when > 1500m				
Humidity range Altitude Noise level	е	<55dB at	< 1500m, derating required when > 1500m	< 58dB at 1 Meter			
Humidity range	е	<55dB at	< 1500m, derating required when > 1500m				

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

## MP BT 10-20kVA battery pack specification

MODEL	MP31 BT40120N
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 discharing cycle and ambient temperature
System voltage	±120Vdc
Battery quantity	2×20 PCS
Capacity	7Ah/9Ah (12V)
PHYSICAL	
Dimension (W×D×H)	250×619×616mm (With wheel)
Net weight	122kg/134kg
ENVIRONMENT	
Safety	CE
Operating environment	0°C~40°C
Relative humidity	0~95% (Non condensing)
Noise level	< 40dB at 1 Meter

Specifications are subject to change without prior notice.

Remark: MP31 BT40120N "MP31" means series; "BT" means Battery Tower cabinet; "40" means battery number inside the cabinet; "120" means the battery system voltage; "N" means battery with neutral connection.

MODEL	YDC3320 BT80120N	
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	$3\!\sim\!5$ years, depend on discharing cycle and ambient temperature	
System voltage	±120Vdc	
Battery quantity	4×20 PCS	
Capacity	7Ah/9Ah (12V)	
PHYSICAL		
Dimension (W×D×H)	250 × 900 × 868mm (With wheel)	
Net weight	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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