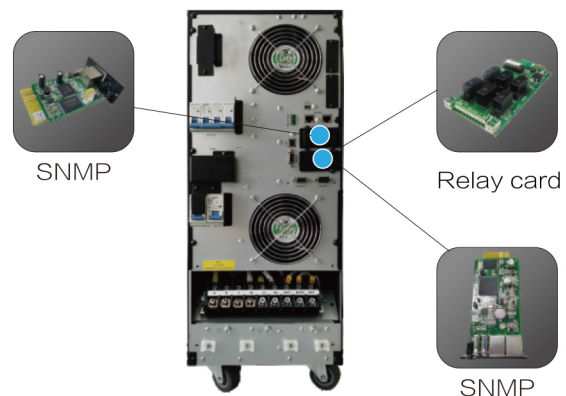


3:1Phase PF 1.0 (10kVA ~ 20kVA)



### Features

- N+X parallel redundancy, support maximum 4 units in parallel
- Online double conversion with DSP control
- Optimization battery group, the quantity of battery: 16/18/20pcs (32~40pcs is optional)
- Wide input voltage range: 205~478Vac
- Wide input frequency range: 40Hz~70Hz
- Input current harmonic: <3%
- Dual input source (Optional)
- Maximum charging current up to 18A (Settable)
- Support 3/1 and 1/1 operation
- Generator compatible
- 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
- Technical True Online
- Colorful 2.4 inch TFT LCD display and 7 inch LCD display LCD are optional
- Multiple protection function: short-circuit, overload, overheat, battery overcharge and overdischarge, output low voltage and fan fault alarm
- Multiple communication interface: RS232/RS485/USB/EPO /Expanded functions (power backup/ voltage stabilization/ automatic stabilization/ anti-electric pulse/ interference filtering/ lighting protection)



Technical Specifications:

MODEL		AR-MP3110H	AR-MP3110S	AR-MP3115H	AR-MP3115S	AR-MP3120H	AR-MP3120S
Capacity		10kVA/ 10kW		15kVA/ 15kW		20kVA/ 20kW	
INPUT							
Nominal voltage		380/400/415Vac (3PH+N+PE) 220/230/240Vac (L+N+PE)					
Operating voltage range		205~478Vac ; 120~276Vac					
Operating frequency range		40~70Hz (50/60Hz Auto-Sensing)					
Power factor		≥0.99					
Harmonic distortion (THDi)		≤3% Linear load					
Bypass voltage range		Max.voltage:220V:+25% (Optional+10%,+15%,+20%)					
		230V:+20% (Optional+10%,+15%)					
		240V:+15% (Optional+10%)					
		Min.voltage:-45% (Optional-10%,-20%,-30%)					
FREQUENCY							
Frequency protection range		50/60Hz ± 10%					
OUTPUT							
Output voltage		220/230/240Vac (L+N+PE)					
Voltage regulation		± 5%					
Power factor		1.0					
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	Load≤110%: last 60min turn to bypass; ≤127%: last 10min turn to bypass; ≤150%: last 1min turn to bypass; ≥150% turn to bypass mode immediately					
	Bat.mode	Load≤110%: last 10min; ≤127%: last 1min; ≤138%: last 30s; ≤150%: last 5s; ≥150% shut down UPS immediately					
	Bypass mode	Breaker 2x32A		Breaker 2x50A		Breaker 2x63A	
EFFICIENCY							
Efficiency		up to 93.5%		up to 94.5%			
BATTERY							
Battery voltage	Standard unit	± 120Vdc (20pcs 9Ah) (20pcs 7A、 2x20pcs 7/9Ah optional)		± 120Vdc (2x20pcs 9Ah) (2x20pcs 7Ah optional)			
	Long run unit	± 96Vdc~ ± 120Vdc (16~32pcs, 16pcs 12V/200Ah, Standard unit and 32pcs 12V/200Ah (no power derating); 18pcs output power factor 0.9; 16pcs output power factor 0.8)					
		± 192/204/216/228/240Vdc (32/34/36/38/40pcs optional)					
Charging current		14A Max.	1.35A(2.7A optional)	16A Max.	2.7A	18A Max.	2.7A
		charging current can be set according to battery capacity					
PHYSICAL							
Dimension W x D x H (mm)		H: 250 x 580 x 655 ; S:250 x 900 x 868					
Net weight (kg)		33/125		37/180		38/181	
Base (mm)		100 ( With wheel )					
ENVIRONMENTAL							
Operating temperature		0℃ ~ 40℃					
Storage temperature		-25℃ ~ 55℃					
Humidity range		0 ~ 95% (Non condensing)					
Altitude		<1500m,derating required when>1500m					
Noise level		<55dB at 1 Meter				<58dB at 1 Meter	
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					

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 discharging cycle and ambient temperature
System voltage	± 120Vdc
Battery quantity	2 * ± 10 PCS
Capacity	7Ah/9Ah (12V)
PHYSICAL	
Dimension W x D x H (mm)	250 x 619 x 616
Net weight (kg)	122/134
ENVIRONMENT	
Safety	CE
Operating environment	0℃~40℃
Relative humidity	0~95% (Non condensing)
Noise level	<40dB at 1 Meter