

Magna RT Series, 3:1 phase PF 1.0, 6~10kVA

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



Features

- LCD supports Rack/Tower convertible design
- N+X parallel redundancy,support maximum 4 units in parallel
- Online double conversion with DSP control
- Input current harmonic: <3%
- Optimization battery group,the quantity of battery: 16/18/20pcs (32~40pcs is optional)
- Wide input voltage range: 208~478Vac
- Wide input frequency range: 40~70Hz
- Dual input source
- Support 3/1 and 1/1 operation
- Generator compatible
- ECO mode operation for energy saving
- Cold start
- Intelligent fan speed regulation
- Self-testing when UPS startup
- 50/60Hz frequency converter mode
- Multiple protection function:short-circuit,overload,overheat, battery overcharge and overdischarge,output low voltage and fan fault alarm
- Multiple communication interface: RS232/RS485/EPO/Output port/ Maintain-AUXSWS port (Relay card/SNMP card/BMS optional)
- PDU module is optional

Accessories

		
Optimized Battery Configuration 7Ah/9Ah (12V)	Multifunctional Bracket	Battery Cabinet (Optional)



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Technical Specifications

Model		E006MER313	E010MER313
Capacity (W)		6kVA / 6kW	10kVA / 10kW
Input			
Nominal Voltage		380/400/415Vac (3PH+N+PE), 220/230/240Vac (L+N+PE)	
Operating Voltage Range		208~478Vac; 120~270Vac	
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-20%,-30%)	
Frequency			
Frequency Protection Range		50/60Hz ± 10%	
Output			
Output Voltage		220/230/240Vac (L+N+PE)	
Voltage Regulation		±1%	
Power Factor		1.0	
Voltage Regulation	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; ≤125%: last 10min; ≤150%: last 1min; ≥150% turn to bypass mode immediately	
	Bat.mode	Load≤110%: last 10min; ≤125%: last 1min; ≤150%: last 5s; ≥150% shut down UPS immediately	
	Bypass mode	Breaker (Load<125%,long-term operation)	
Efficiency			
Efficiency		up to 93.5%	
Output			
Battery Voltage		±96/±108/±120Vdc (16/18/20pcs optional); (16pcs default, 20pcs 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		12A Max.	14A Max.
Physical			
Dimension W x D×H (mm)		443 x 580 x 131 (3U)	
Net weight (kg)		27	28
Environmental			
Operating Temperature		0°C ~ 40°C	
Storage Temperature		-25°C ~ 55°C	
Humidity Range		0~95% (Non condensing)	
Altitude		<1500m,derating required when>1500m	
Noise Level		<53dB at 1 Meter	<55dB at 1 Meter

