

# Magna-RT Online UPS, 3:3 Phase, PF 1.0, 10 TO 20KVA

Reference Standard- 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 support Rack/Tower convertible 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: 30~50pcs is settable
- Maximum charging current up to 20A (Settable)
- Dual input source
- Support 3/3 and 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
- 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
- RS232, RS485, Parallel, Intelligent Slot (SNMP card/ Relay card (Optional)), BMS (Optional), EPO port, Output port, MAINTAIN AUX SWS port
- PDU module is optional



## Accessories



Optimized Battery Configuration 7Ah/9Ah (12V)



Multifunctional Bracket



Battery Cabinet (Optional)



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## Technical Specifications

Model	E010MER33	E015MER33	E020MER33
Capacity	3-Phase In / 3-Phase Out		
Capacity (W)	10kVA / 10kW	15kVA / 15kW	20kVA / 20kW

### Input

Nominal Voltage	380/400/415Vac (3Ph+N+PE); 220/230/240Vac (L+N+PE)
Operating Voltage Range	208~478Vac
Operating Frequency Range	40~70Hz (50/60Hz Auto-Sensing)
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 $\pm$ 10%
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### Output

Output Voltage		380/400/415Vac (3Ph+N+PE); 220/230/240Vac (L+N+PE)
Voltage Regulation		±1%
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	Line Mode	Load ≤110%: last 60min; ≤125%: last 10min; ≤150%: last 1min; ≥150% turn to bypass mode immediately
	Battery 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 94.5%	up to 95%
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### Battery

Battery Voltage	±180/192/204/216/228/240/252/264/276/288/300Vdc (30/32/34/36/38/40/42/44/46/48/50pcs optional)	
Charging Current	18A Max.	20A Max.

### Physical

Dimension W x D x H (mm)	443 x 580 x 131(3U)		
Net weight (kg)	29	31	32



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### Technical Specifications

Model	E010MER33	E015MER33	E020MER33
<b>Environmental</b>			
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	<55dB		<58dB

