

# Magna Tower UPS, 3:3 Phase, PF 1.0, 10kVA 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

- 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 is optional) 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
- 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)

## Additional Features



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### Technical Specifications

Model	E010MET33	E015MET33	E020MET33
Capacity	10kVA / 10kW	15kVA / 15kW	20kVA / 20kW

#### 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

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		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	≤110%, last 60min; ≤125%, last 10min; ≤150%, last 1min; >150% turn to bypass Immediately
	Bat.mode	≤110%, last 10min; ≤125%, last 1min; ≤150%, last 5s; >150% turn to bypass Immediately

#### Efficiency

Efficiency	up to 93.5%	up to 94.5%
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### Technical Specifications

Model	E010MET33	E015MET33	E020MET33
Capacity	10kVA / 10kW	15kVA / 15kW	20kVA / 20kW

#### Output

Battery Voltage	External unit	10~30kVA (Optional): $\pm 180/192/204/216/228/240/252/264/276/288/300$ Vdc (30/32/34/36/38/40/42/44/46/48/50pcs optional)		
Charge Current	External unit	14A Max.	16A Max.	18A Max.

#### Physical

Dimension W x D x H (mm)	External unit	250 x 580 x 655		
Net weight (kg)		35	39	40

#### Environmental

Operating Temperature	0°C ~ 40°C			
Storage Temperature	-25°C ~ 55°C (No battery)			
Humidity Range	0~95% (Non condensing)			
Altitude	<1500m, derating required when >1500m			
Noise Level	<55dB		<58dB	