

Magna Tower Online UPS, 3:3 Phase, PF 1.0, 120 TO 160KVA

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

- Touch LCD Display
- True Double Conversion
- Unity Power Factor
- Low THDi to reduce power system pollution
- Programmable Outlets
- ECO Mode for Energy Saving
- Adjustable charging current
- EPO Function
- Network Manageable

High Reliability Design

- Wide input voltage range 138-485Vac (Phase voltage 80-280Vac), no derating when input voltage ≥ 305 Vac.

Strong Load Capacity

- Output power factor is 1.0, UPS can supply power to 100% unbalance load.
- High adaptability for load, it can connect full inductive load or capacitive load.

Power Saving

- High input power factor, it can be up to 0.99
- Three level inverter topology, the efficiency can be up to 96%.

Parallel Redundancy Function

- Support parallel expanded operation: maximum is 6 units.
- Support sharing batteries for the UPS in parallel.

LBS Function

- LBS function can realize 2 independent UPS system work in synchronization, and it enhances the reliability of the system.



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Flexible Battery Configuration

- Batteries number of each group can be selected from 30 pieces to 50 pieces.
- Large charging current can meet the requirement of long time backup.

Intelligent Management

- Support USB, RS485, RS232, SNMP, dry contact card.

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Technical Specifications

Model		E120MET33	E140MET33	E160MET33
Phase		3-Phase In / 3-Phase Out		
Capacity (VA/Watts)		120kVA / 120kW	140kVA / 140kW	160kVA / 160kW
Input				
Nominal Voltage		380/400/415Vac (3Ph+N+PE)		
Operating Voltage Range		138~485Vac @40%load; 305~485Vac @full-load		
Operating Frequency Range		40~70Hz (50/60Hz Auto-Sensing)		
Power Factor		>=0.99		
Harmonic Distortion (THDi)		≤ 3% (100% 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 Protection Range		50/60Hz ± 10%		
Generator Input		Support		
Output				
Output Voltage		380/400/415Vac (3Ph+N+PE)		
Voltage Regulation		± 1%		
Power Factor		1.0		
Output Frequency		1.Line Mode: ±1%/±2%/±4%/±5%/±10% of the rated frequency (Optional)		
		2.Battery Mode:(50/60 ± 0.1)Hz		
Crest Factor		3:1		
Harmonic Distortion (THDi)		≤ 1% with linear load		
		≤ 3% with non linear load		
Overload	INV Mode	≤ 110% overload 60 min; ≤ 125% overload 10 min; ≤ 150% overload 1 min, to Bypass		
	Bypass Mode	135% overload long time; >1000% overload 100 ms		
Efficiency		96%		
Battery				
Battery Voltage		Optional Voltage: ±180V/±192V/±204V/±216V/±228V/±240/±252/±264/±276/±288/±300Vdc (30/32/34/36/38/40/42/44/ 46/48/50pcs optional); 360Vdc~600Vdc (30~50 pcs, 30 pcs default; 32~50 pcs output power factor 0.9; 30 pcs output power factor 0.8;)		
Charge Current(A) (charge current can be set according to battery capacity installed)		20A Max.	40A Max.	60A Max.



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Model	E120MET33	E140MET33	E160MET33
System Features			
Transfer Time	Utility to Battery : 0ms; Utility to bypass: 0ms		
Backfeed Protection	Support		
Alarm	Overload, utility abnormal, UPS fault, battery low, etc.		
Protection	Short circuit, overload, over temperature, battery low, fan fault alarm.		
Remote LCD	Support		
Communication	USB, RS232, RS485, Parallel port, dry contact, Intelligent slot, LBS, SNMP card (optional), Relay card (optional)		
Environmental			
Operating Temperature	0°C~40°C		
Storage Temperature	-25°C~55°C (no battery)		
Humidity Range	0~95% (Non-condensing)		
Altitude	< 1500m. When > 1500m, lower the rated power for use		
Noise Level	< 62dB	< 63dB	
Physical			
Dimension W × D × H (mm)	442 x 850 x 1200		442 x 850 x 1200
Net Weight (kgs)	152	200	

