



YOUR ULTIMATE POWER PROTECTION PARTNER



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MX 1kVA-10kVA

The MX UPS is an online double conversion UPS available from 1kVA to 10kVA with an output power factor 1. It is designed to provide continuous utility power protection for critical system installation. The MX series has USB and RS-232 communication ports as standard, with a built-in intelligent slot for optional protocol converters (e.g. SNMP...). The MX Series is the best solution for different applications: data centers, servers and networking devices, control systems, video surveillance systems...

Description

- True Online Double Conversion Design
- Pure Sine Wave Output
- Fully Digitized Microprocessor Control
- DSP Technology
- Output Power Factor 1
- Active Input Power Factor Correction (PFC 0.99)
- 50/60 Hz Frequency Converter
- Wide Input Voltage Range
- Built in Automatic Bypass
- Generator Compatible
- N+X Parallel Redundancy Configuration ¹
- Emergency Power Off Function (EPO)
- Cold Start Function (DC Power On)
- Advanced Battery Management (ABM Technology)
- Automatic Diagnostics & Battery Check
- High Overload Capability and Enhanced Short Circuit Protection
- Eco Mode For Energy Saving
- Isolation Transformer ¹
- Programmable Power Management Outlets
- Multi-Function LCD Display
- Software Monitoring and Control
- Smart RS-232/USB Communication Port
- SNMP/AS-400 Communication Slots ¹

¹ Optional Features

Technical Specifications

Model	Model	MX 1k	MX 2k	MX 3k	MX 6k	MX 10k
	Rating	1000VA	2000VA	3000VA	6000VA	10000VA
	Output Power	1000W	2000W	3000W	6000W	10000W
Input	Voltage	220/230/240 VAC, 1 Ø 2 wires				
	Voltage Range	160-300 VAC at 100% load, 110-300 VAC at 50% load				
	Frequency	40 to 70 Hz				
	Power Factor	>99% at 100% load				
	Total Harmonic Distortion	≤3% at 100% load				
Output	Voltage (backup mode)	220/230/240 VAC +/-1%, 1 Ø 2 wires				
	Frequency (backup mode)	50/60 Hz +/-0.1 Hz				
	Waveform	Pure sine wave				
	Transfer Time (AC to Batt. Mode)	0 ms				
	Transfer Time (Inverter to Bypass)	<4 ms				
	Total Harmonic Distortion	≤2% (linear load), ≤4% (non linear load)		≤3% (linear load), ≤5% (non linear load)		
	Crest Factor	3:1				
Efficiency	AC Mode	95%			>95%	>96%
	Battery Mode	93%	94%		>94%	>95%
Protection	Overload (AC Mode)	110% for 10min, 130% for 1min, >130% for 3sec			110% for 10min, 130% for 1min, >130% for 1sec	
	Short Circuit	UPS output cuts off immediately using input fuse/circuit breaker protection				
System Display	LCD Indicators	UPS status, load level, battery level, input/output voltage, discharge time and fault indicators				
Battery	Battery Type	12V 7Ah		12V 9Ah	12V 7Ah	12V 9Ah
	Battery Number	3	6		20	
	Nominal DC Voltage	36 VDC	72 VDC		240 VDC	
	Typical Recharge Time	4 hours to 90% capacity			6 hours to 90% capacity	
	Charging Current	1.5 A			1 A	
	Charging Voltage	41 VDC +/-1%	82.1 VDC +/-1%		273 VDC +/-1%	
	Backup time	10~15 min depending on load				
Audible Alarm	Battery Mode	Sounding every 4 sec				
	Low Battery	Sounding every second				
	Overload	Sounding twice every second				
	Fault	Continuously sounding				
Communication	USB or RS-232	Interface with power management software				
	SNMP, AS-400 ¹	Power management from SNMP manager and web browser				
	Compatibility	Supports Windows family, Linux, Unix, and Mac				
Physical	Output Receptacles	4x Schuko/ Universal/IEC/ NEMA sockets or 3x India sockets	4x Schuko/ Universal sockets or 8x IEC/NEMA/ or 6x India sockets	4x Schuko/ Universal sockets or 6x IEC/NEMA India sockets	Terminal connection	
	Dimension WxDxH (mm)	145x397x220	190x421x318		250x592x576	
	Net Weight (kg)	12.5	25.8	27	81	83
Environment	Operating Temperature	0 to 40°C				
	Altitude	Maximum elevation at 1000m				
	Audible Noise	<50dB at 1m			<55dB at 1m	<58dB at 1m
	Operating Humidity	20 to 95% humidity (non-condensing)			0 to 95% humidity (non-condensing)	
Standards & Certifications	Performance	EN 50091-3/IEC 62040-3				
	Safety	UL 1778, CE, EN 50091-1, EN 69050 (RD), IEC 60950				
	EMC (EMS/EMI)	IEC 61000-4-2/-3/-4/-5/-6/-8/-11, IEC 61000-3-2/-3, FCC Part 15, CISPR 22, EN 50091-2/IEC 62040-2 Class A, EN 55022/B, FCC 47 Part 15 - Subpart B -				
	Design, production & services	ISO 9001				
	Environment	ISO 14001 certified company				
	Marking & Certifications	CE, TUV/GS, UL, cUL, c-Tick				

¹ Optional Features

PCE[®]

P O W E R

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