



YOUR ULTIMATE POWER PROTECTION PARTNER



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MX31 10kVA-20kVA

The MX31 UPS is a 3-phase In/1-phase Out online double conversion UPS available from 10kVA to 20kVA with an output power factor 1. It is designed to provide ultimate performance in power protection and redundancy for critical systems requiring high power availability. The MX31 series has USB and RS-232 communication ports as standard, with a built-in intelligent slot for optional protocol converters (e.g. SNMP...). The MX31 Series is the best solution for different applications: server rooms, data centers, healthcare sector, financial applications...

Description

- 3-phase In/1-phase Out
- 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 10k 31 | MX 15k 31 | MX 20k 31 |
|----------------------------|------------------------------------|---|---------------|-----------|
| Model | Rating | 10000VA | 15000VA | 20000VA |
| | Output Power | 10000W | 15000W | 20000W |
| | Voltage | 380/400/415 VAC, 3 Ø 4 wires | | |
| Input | Voltage Range | 305-478 VAC at 100% load, 190-520 VAC at 50% load | | |
| | Frequency | 40 to 70 Hz | | |
| | Power Factor | >99% at 100% load | | |
| | Total Harmonic Distortion | <3% at 100% load | | |
| | Voltage (backup mode) | 220/230/240 VAC +/-1%, 1 Ø 2 wires | | |
| Output | 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) | 0 ms | | |
| | Total Harmonic Distortion | ≤2% (linear load), ≤5% (non linear load) | | |
| | Crest Factor | 3:1 | | |
| | Efficiency | AC Mode | 96% | |
| Battery Mode | | 95% | | |
| Protection | Overload (AC Mode) | 110% for 10min, 130% for 1min, >130% for 3sec | | |
| | 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 9Ah | | |
| | Battery Number | 20 | 20 x2 strings | |
| | Nominal DC Voltage | 240 VDC | | |
| | Typical Recharge Time | 9 hours to 90% capacity | | |
| | Charging Current | 1 A | 2 A | |
| | Charging Voltage | 273 VDC +/-1% | | |
| Audible Alarm | Backup time | 10~15 min depending on load | | |
| | 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 | Dimension WxDxH (mm) | 250x592x576 | 250x815x826 | |
| | Net Weight (kg) | 83 | 164 | |
| Environment | Operating Temperature | 0 to 40°C | | |
| | Altitude | Maximum elevation at 1000m | | |
| | Audible Noise | <58dB at 1m | <60dB at 1m | |
| | Operating Humidity | 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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