



YOUR ULTIMATE POWER PROTECTION PARTNER



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MXL31 10kVA-20kVA

The MXL31 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 compatible with a wide range of battery autonomies enabling it to provide long backup times whenever necessary. The MXL31 series is designed to provide ultimate performance in power protection and redundancy for critical systems requiring high power availability. It has USB and RS-232 communication ports as standard, with a built-in intelligent slot for optional protocol converters (e.g. SNMP...). The MXL31 Series is the best solution for different applications: server rooms, data centers, healthcare sector, financial applications...

Description

- Extra Long Backup
- 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	MXL 10k 31	MXL 15k 31	MXL 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	SLA, Nicad, Li-ion		
	Battery Number	20		
	Nominal DC Voltage	240 VDC		
	Typical Recharge Time	Depending on capacity of external batteries		
	Charging Current	4 A		
	Charging Voltage	273 VDC +/-1%		
	Backup time	Longer backup time depending on extra battery pack		
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	Dimension WxDxH (mm)	250x592x576		
	Net Weight (kg)	28		40
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		

PCE[®]

P O W E R

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