



YOUR ULTIMATE POWER PROTECTION PARTNER



www.pcepowers.com

MXRM31 10kVA-20kVA

The MXRM31 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 for use within rack-based enclosures. It provides ultimate performance in power protection and redundancy for critical systems requiring high power availability. The MXRM31 series has USB and RS-232 communication ports as standard, with a built-in intelligent slot for optional protocol converters (e.g. SNMP...). The MXRM31 Series is the best solution for different applications: server rooms, data centers, healthcare sector, financial applications...

Description

- ▣ Rack-Tower 2 in 1 Design
- ▣ 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	MXRM 10K 31	MXRM 15K 31	MXRM 20K 31
Model	Rating	10000VA	15000VA	20000VA
	Output Power	10000W	15000W	20000W
Input	Voltage	380/400/415 VAC, 3 Ø 4 wires		
	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		
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)	0 ms		
	Total Harmonic Distortion	≤2% (linear load), ≤5% (non linear load)		
	Crest Factor	3:1		
Efficiency	AC Mode	95%	96%	
	Battery Mode	94%	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		
Communication	Fault	Continuously sounding		
	USB or RS-232	Interface with power management software		
	SNMP, AS-400 ¹	Power management from SNMP manager and web browser		
Physical	Compatibility	Supports Windows family, Linux, Unix, and Mac		
	UPS: Dimension WxDxH (mm)	438x668x133	438x668x266	
	Net Weight (kg)	22	45	
	Battery Pack: Dimension WxDxH (mm)	438x580x133	438x580x133 (x2)	
Environment	Net Weight (kg)	63		
	Operating Temperature	0 to 40°C		
	Altitude	Maximum elevation at 1000m		
	Audible Noise	<60dB at 1m	<65dB 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

North America

PCE POWER INC
4805 Colombo Cres.
Mississauga, ON
Toronto - Canada

ME&A

PCE POWER FZE
LOB 18-2007,
Jebel Ali Free Zone
Dubai - United Arab Emirates

Europe

PCE POWER EUROPE
2 Steliou Mavrommati
Nicosia - Cyprus

Asia Pacific

PCE POWER CHINA LTD
20/F., Champion Building,
Des Voeux Rd, Sheung Wan,
Hong Kong - China



LFSTS18EN115[®] 2021 PCE POWER CHINA LTD.
All trademarks are property of their respective owners.
Specifications subject to change without notice.