

# FXM 2000

## Rugged UPS Module



Your Power Solutions Partner

- 2000W/VA UPS designed to operate in extreme environments and provide maximum flexibility while ensuring critical loads remain protected and running during power outages and other power disturbances
- Wide range Automatic Voltage Regulation (AVR) lengthens battery life by providing protection without transferring to backup mode during voltage surge or sag
- Independently programmable control and reporting dry contacts allow monitoring and controlling of key functions
- Temperature compensated battery charging protects batteries from overcharging or undercharging at extreme temperatures, extending the life of the battery
- Local and remote monitoring and control via RS232 port and Ethernet SNMP interface\*
- UPS panels can be rotated, improving flexibility and viewing convenience



**Alpha FXM is a line of rugged UPS power modules used worldwide where clean backup power is needed.** Designed to perform in the most extreme demanding environments, Alpha FXM units ensure equipment in security, communications, traffic, industrial environments, and many other critical applications remains safe and protected from power disturbances. Thanks to its powerful programmable battery charger, the FXM is capable of providing the runtime you need. All FXM models are available in 120Vac and 230Vac.

\*Ethernet SNMP card is standard on the 120Vac model and optional on the 230Vac model

# Power

# FXM 2000 Rugged UPS Module

Consult your Alpha representative for P/N configurations

## ELECTRICAL

### > 120Vac Model

**Battery string voltage:**.....48Vdc  
**Nominal voltage:**.....120Vac  
**Frequency:** .....60Hz/50Hz ±5% (auto detection)  
**Input:**  
 Voltage range:.....85 to 152Vac  
 Current:.....20A (@ nominal voltage and max battery charging current)

**Output:**  
 Waveform:.....Pure sinewave  
 Nominal voltage: .....120Vac  
 Voltage regulation: .....±10% on line mode, ±2% on inverter mode  
 Power at 50°C:.....2000W/VA  
 Frequency:.....Output frequency = Input frequency

### > 230Vac Model

**Battery string voltage:**.....48Vdc  
**Nominal voltage:**.....230Vac  
**Frequency:** .....60Hz/50Hz ±5% (auto detection)  
**Input:**  
 Current:.....12A (@ nominal voltage and max battery charging current)  
 Voltage range:.....150 to 328Vac

**Output:**  
 Waveform:.....Pure sinewave  
 Nominal voltage: .....230Vac  
 Voltage regulation .....±10% on line mode, ±2% on inverter mode  
 Power at 55°C:.....2000W/VA  
 Frequency:.....Output frequency = Input frequency

## MECHANICAL

**Dimensions:**  
 mm:.....133H x 394W x 222D  
 inches: .....5.22H x 15.5W x 8.75D  
**Weight:**.....16kg (35lbs)

## COMMUNICATION INTERFACE:

**Display:**.....2 x 20 backlit alpha-numeric LCD  
**Ports:** .....DE-9 Female: Local RS232 Communication  
 RJ45: Remote Communication  
 RJ11: Battery Temperature Compensation  
**Indicators:** .....Green & Red LED's  
 Solid Green: Line Mode  
 Flashing Green: Inverter Mode  
 Flashing Red: Alarm  
 Solid Red: Fault  
**Dry Contacts:**.....Programmable NO/NC (250Vac, 1A)\*,  
 3 user inputs, ATS

### Factory Default:

- C1: On Battery
- C2, C3: Low Battery
- C4: Load Shed Timer 1
- C5: Alarm
- C6\*: 48Vdc @ 500mA
- C7: User Inputs
- S1: Self test
- S2: User Input
- S3: Shutdown(EPO)
- C8: ATS

\* C6 is factory configurable only

## ENVIRONMENTAL

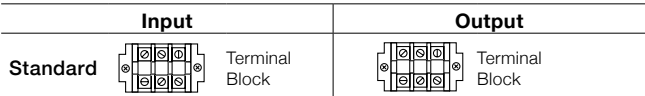
**Operating temp range\*:**....-40 to 74°C (-40 to 165°F)  
**Humidity:** .....Up to 95% (non condensing)  
**Altitude(m/ft):** .....Up to 3700 (12,000)\*\*  
**Audible noise @ 25°C:**.....45dBa @ 1 meter (39in)  
**MTBF (hours):**.....150K + as per Telcordia SR-332, 100% duty cycle ,full load  
**BTU/Hr:**.....Normal mode 41W  
 Backup mode 439W  
 \*120Vac module derates after 50°C (122°F). 230Vac module derates after 55°C (131°F)  
 \*\*Derates 2°C per 300m (1000ft) above 1400m (4500ft)

## PERFORMANCE

**Typical output voltage THD:** ..... <3% (resistive load)  
**Typical efficiency:** ..... >98% (resistive load)  
**Typical transfer time:**..... <5ms  
**Load Crest factor:**..... 3:1 (load dependent)

## POWER CONNECTOR OPTIONS

### 120Vac Model



### 230Vac Model



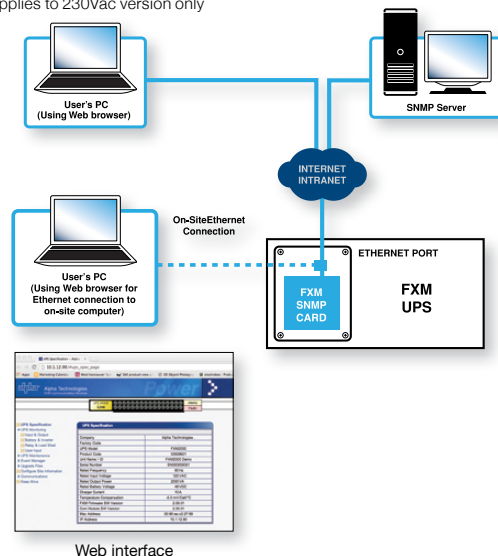
## AGENCY COMPLIANCE

**Electrical safety:**.....UL1778, CSA 22.2 No 107.3; EN62040-1

**Marks:**  

**EMC:** .....CFR47, Part 15 Subpart B, Class A;  
 CES-003 Class A; EN62040-2

\*\*CE applies to 230Vac version only



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