

FXM 650

Rugged UPS Module

- 650W/VA UPS module 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*



Alpha FXM is a line of rugged UPS power modules used worldwide in the most demanding environments 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 650 Rugged UPS Module

Consult your Alpha representative for P/N configurations

ELECTRICAL

> 120Vac Model

Battery string voltage:.....24Vdc or 48Vdc
Nominal voltage:..... 120Vac
Frequency:60Hz/50Hz ±5% (auto detection)
Input:
 Current:.....8.7A (@ nominal voltage and max battery charging current)
 Voltage range:.....85 to 175Vac

Output:
 Waveform:.....Pure sinewave
 Nominal voltage: 120Vac
 Voltage regulation:±10% on line mode, ±2% on inverter mode
 Power at 55°C:.....650W/VA
 Charge current:.....10A max
 Frequency:.....Output frequency = Input frequency

> 230Vac Model

Battery string voltage:.....24Vdc
Nominal voltage:.....230Vac
Frequency:60Hz/50Hz±5% (auto detection)
Input:
 Current:.....4.5A (@ 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:.....650W/VA
 Frequency:.....Output frequency = Input frequency

MECHANICAL

Dimensions:
 mm:.....88H x 432W x 229D
 inches:3.47H x 17W x 9D
Weight:.....11kg (25lbs)

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 9W
 Backup mode FXM 650-48: 143W
 Backup mode FXM 650-24: 217W



*Derates after 55°C
 **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

	Input	Output
Standard	 Terminal Block	 Terminal Block

230Vac Model

Standard	 Terminal Block	 Terminal Block
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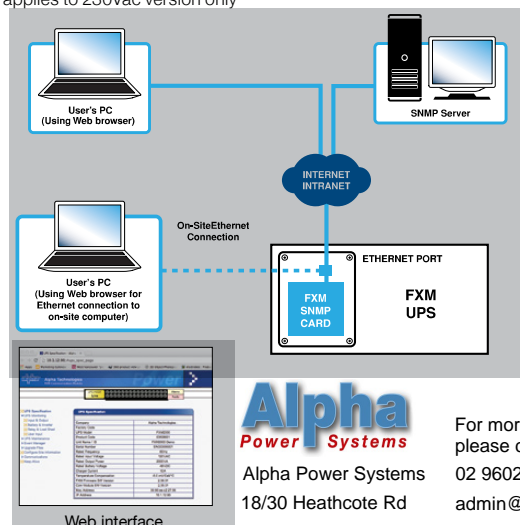
AGENCY COMPLIANCE

Electrical safety:UL1778, CSA 22.2 No 107.3-03

Marks: 

EMI:Class A FCC/CISPR [EN 50091-2:1995]

**CE applies to 230Vac version only



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#0480012-00 Rev E (10/2015)

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