FXM 350

Rugged UPS Module

- 350W/VA UPS module designed to operate in extreme environments; providing maximum flexibility while ensuring critical loads remain protected and running during power outages and other power disturbances

- Unsurpassed flexibility with dual 120VAC & 24VAC outputs

- Wide range Automatic Voltage Regulation (AVR) lengthens battery life by providing protection without transferring to backup mode during voltage surge or sag

- Local and remote monitoring and control via USB port and Ethernet SNMP interface

- Temperature compensated battery charging protects batteries from overcharging at extreme temperatures, extending the life of the battery

- Independently programmable control and report dry contacts allow monitoring and controlling of key functions

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 remain 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.

Alpha® FXM family of uninterruptible power supplies (UPS) are designed to provide clean and reliable backup power. Featuring an automatic voltage regulation (AVR), each FXM UPS provides power stability in varied power conditions without using batteries as well as the ability to switch to emergency backup power while maintaining critical loads. The factory installed SNMP card allows remote programming, monitoring and automatic e-mail notification via a web browser.

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Consult your Alpha representative for P/N configurations

Electrical

120VAC Model

Battery String Voltage:	48VDC or 24VDC
Nominal Voltage:	120VAC
Frequency:	60/50Hz ±5% (auto-detection)
Input:	**Voltage Range (w/o transferring to battery mode):** 88 to 152VAC **Current:** • FXM350-24: 5.3A • FXM350-48: 5.7A
Output:	**Waveform:** Pure sinewave **Nominal Voltage:** Dual 120VAC, 24VAC **Voltage Regulation:** ±10% on line mode, ±2% on inverter mode **Power at 55°C:** 350W/VA Total • 24VAC: 260W/VA (max) • 120VAC: 350W/VA (max) **Frequency:** Output frequency = Input frequency

230VAC Model

Battery String Voltage:	24VDC
Nominal Voltage:	230VAC
Frequency:	60/50Hz ±5% (auto-detection)
Input:	**Voltage range (w/o transferring to battery mode):** 151 to 282VAC **Current:** 2.7A
Output:	**Waveform:** Pure sinewave **Nominal voltage:** 230VAC, 24VAC **Voltage regulation:** ±10% on line mode, ±2% on inverter mode **Power at 55°C:** 350W/VA Total • 24VAC: 260W/VA (max) • 120VAC: 350W/VA (max) **Frequency:** Output frequency = Input frequency

Communication Interface

Display:	2 x 20 backlit alpha-numeric LCD
Ports:	**USB-B Female:** Local Communication **RJ45:** Remote Communication **RJ11:** Battery Temperature Compensation
Indicators:	**Solid Green:** Line Mode **Flashing Green:** Inverter Mode **Flashing Red:** Alarm **Solid Red:** Fault
Dry Contacts:	2 x Programmable NO/NC (250VAC, 1A), 2 user inputs
Factory Default:	• C1: On Battery • C2: Low Battery • S1: Self Test • S2: User Input
Optional Signals Assembly:	3 x Programmable NO/NC (250VAC, 1A), 2 user inputs

Mechanical

Mounting:	19" or 23" rack with the addition of ears for rack mounting
Dimensions:	**mm:** 88.14H x 342W x 198D **inches:** 3.5H x 13.46W x 7.8D
Weight:	8.62kg (19lbs)

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/30.7BTU/hr Backup mode 110W/675 BTU/hr

Performance

Typical Output Voltage THD:	<3% (resistive load)
Typical Efficiency:	>96% (resistive load)
Typical Transfer Time:	<5ms
Load Crest Factor:	3:1 (load dependent)

Power Connector Options

120VAC Model

Input		Output	
Standard	Terminal Block	**Standard**	Terminal Block

230VAC Model

Standard	Terminal Block	**Standard**	Terminal Block

Agency Compliance

Electrical Safety:	UL1778, CSA C22.2 No. 107.3, EN60950-1
Marks:	CSA CE**
EMI:	CFR47, Part 15 Subpart B, Class A; CES-003 Class A; ENG2040-2

*Derates after 55°C (131°F)
**Derates 2°C per 300m (1000ft) above 1400m (4500ft)
***CE applies to 230VAC version only