FXM 1100

Rugged UPS Module

Your Power Solutions Partner

- 1100W/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 surges or sags
- 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 1100 Rugged UPS Module

Consult your Alpha representative for P/N configurations

ELECTRICAL

120Vac Model

Battery string voltage: 48Vdc
Nominal voltage: 120Vac
Frequency: .....60/50Hz ±5% (auto-detection)
Input:
Voltage range: .....85 to 175Vac
Current: .....15.5A (@ 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 55°C: 1100W/VA
Frequency: .....Output frequency = Input frequency

230Vac Model

Battery string voltage: 48Vdc
Nominal voltage: 230Vac
Frequency: .....60/50Hz ±5% (auto-detection)
Input:
Current: .....8A (@ 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: 1100W/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 22W
Backup mode 242W

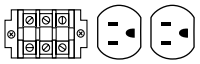
*Derates after 55°C
**Derates 2°C per 300m (1000ft) above 1400m (4500ft)

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
Optional	 Terminal Block	 Terminal Block + Dual 5-15R
	 IEC**	 IEC**

230Vac Model

	Input	Output
Standard	 Terminal Block	 Terminal Block

**FXM models with IEC connectors come with 4 lines LCD display instead of the traditional 2 lines display

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

***Compliance only applies to units with standard input and output connectors.
Contact us for compliance information on models with optional power connectors
****CE applies to 230Vac version only

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