

an EnerSys® company

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 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.

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.

FXM 650 Rugged UPS Module

Consult your sales 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			
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Mechanical	inquency. John inquency input inquency			
Mechanical Dimensions:	mm: 88H x 432W x 229D inches: 3.47H x 17W x 9D			
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Dimensions: Weight: Communication Interf Display:	mm: 88H x 432W x 229D inches: 3.47H x 17W x 9D 11kg (25lbs) CCC 2 x 20 backlit alpha-numeric LCD • DE-9 Female: Local RS232 Communication • RJ45: Remote Communication			
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Dimensions: Weight: Communication Interf Display: Ports: Indicators:	mm: 88H x 432W x 229D inches: 3.47H x 17W x 9D 11kg (25lbs) 2 x 20 backlit alpha-numeric LCD DE-9 Female: Local RS232 Communication RJ45: Remote Communication RJ11: Battery Temperature Compensation Green & Red LED's Solid Green: Line Mode Flashing Green: Inverter Mode Flashing Red: Alarm Solid Red: Fault			

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/30.71 BTU/hr Backup mode: FXM 650-48: 143W/488 BTU/hr Backup mode: FXM 650-24: 217W/740 BTU/hr					
*Derotes after 55°C **Derotes 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:	pad Crest Factor: 3:1 (lood dependent)					
Power Connector Options						
120VAC Model						
Input:	Output:					
Standard @ @ @ @	Terminal Block	Standard	<u> </u>	Terminal Block		
230VAC Model						
Standard @ @ @ @	Terminal Block	Standard	8 0 0 0 8 8 0 0 0 9	Terminal Block		
Agency Compliance						
Electrical Safety:	UL1778, CSA 22.2 No 107.3, EN62040-1					
Marks:	© (€ "					
EMI:	CFR47, Part 15 Subpart B, Class A; CES-003 Class A; EN62040-2 Class A					
**CE applies to 230VAC version only						
User's PC (Using Web browser)						
On-SileEthernet Connection User's PC (Using Web browser for Ethernet connection to On-SileEthernet Connection to On-SileEther						

