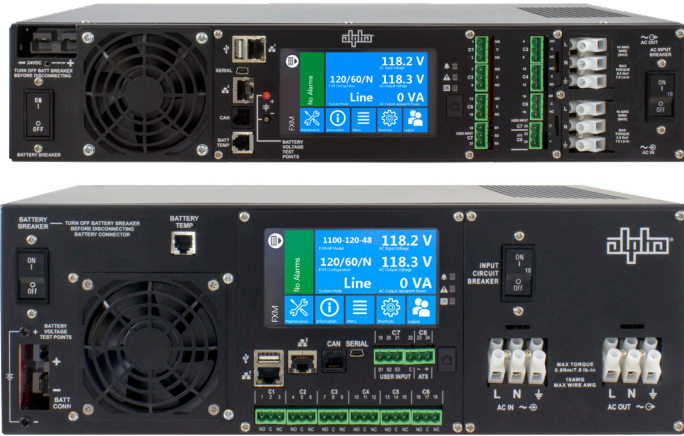




an EnerSys company

# FXM HP

## Rugged UPS Module



- 650, 1100, 2000W/VA UPS designed to operate in extreme environments and provide maximum flexibility
- Advanced next-generation control and monitoring platform with high resolution color touchscreen LCD display with advanced local UI
- Built-in data loggers to monitor performance logs, user configurable alarms and advanced equation editing for custom data and actions
- Integrated USB host for local firmware upgrades, configuration updates, backup, restoration and cloning
- 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

### **The FXM HP continues Alpha's longstanding excellence in Battery Backup Systems by ensuring equipment in critical applications remains protected from power disturbances and outages.**

The FXM HP brings a refreshed look, increased processor horsepower, advanced security and configurability to the proven FXM outdoor family. Colored LCD touchscreen display provides access to multiple configurable tabs for quick system status, overview and configuration without the need of a laptop.

FXM HP includes multiple communication ports including two Ethernet connections to permit simultaneous local craft access as well as permanent LAN/WAN connectivity. USB port provides advanced file management capabilities including firmware upgrades and system configuration management. A USB key may also be used to quickly backup and restore site configuration settings and data logs. Environmental conditions and other equipment can be monitored via a single IP interface via CAN port using Alpha Analog Digital Input Output (ADIO) devices.

Enhanced security using modern encryption technology ensures proper authentication and privacy for remote connection with the UPS. Additional security layer is offered by central server authentication and authorization.

Electrical									
Model	FXM-HP 650-24 120Vac	FXM-HP 650-48 120Vac	FXM-HP 1100 120Vac	FXM-HP 2000 120Vac	FXM-HP 650-24 230Vac	FXM-HP 1100 230Vac	FXM-HP 2000 230Vac	FXM-HP 2000 230Vac	
Input	Input Voltage Range in Line Mode (Vac ±2V)		85-171		85-150		153 - 322		
	Nominal Frequency (Hz)								50Hz or 60Hz (Autodetect Frequency is the default configuration, can also be manually configured.)
	Frequency Tolerance in Line Mode								±5%
	Maximum Input Current (A)		8	10.5	15	20	4.4	8	12
	Input Breaker Rating (A)		10	15	20	25	5.5	10	15
Output	Output Voltage Setting (Vac)		120		210/220/230/240				
	% Regulation								Line Mode: ±10%, Inverter Mode: ±2%
	Rated Power (W/VA)		650	1100	2000	650	1100	2000	
	Frequency (Hz)								Same as Input Frequency
Battery	Battery String Voltage (Vdc)		24	48	24		48		
	Maximum Charging Current (A)		10	15	10		15		
	Battery Breaker Rating (A)		80	50	80	80	80	50	80
Performance	Line Mode Efficiency*		>98%	>97.5%	>98%	>97.5%	>98%	>97%	>97%
	Inverter Mode Efficiency**		>75%	>85%			>75%	>85%	
	Typical Transfer Time								5ms
	Voltage THD (%)						<3%	<3.5%	<5%
	Waveform								Pure Sine Wave
	Load Crest Factor								3:1 (load dependent)
Environmental									
Operating Temperature Range		-40 to 74 °C							
Full Load Operating Temperature Range***		-40 to 55 °C @60Hz -40 to 50 °C @50Hz	-40 to 55 °C	-40 to 50 °C		-40 to 55 °C @230/240V	-40 to 55 °C @220/230/240V	-40 to 55 °C	
Humidity		Up to 95% (non condensing)							
Altitude****		Up to 3700m (12,000ft)							
Audible Noise*****		45dBa @ 1 meter (39in)							
BTU/Hr (Inverter Mode)		700	375	640	1235	845	675	1185	
Mechanical									
Dimensions		in: 3.47H x 17W x 9D mm: 89H x 432W x 229D		in: 5.22H x 15.5W x 8.75D mm: 133H x 394W x 222D		in: 3.47H x 17W x 9D mm: 89H x 432W x 229D		in: 5.22H x 15.5W x 8.75D mm: 133H x 394W x 222D	
Weight		11.3kg (25lbs)	14kg (31lbs)	18kg (40lbs)	11.3kg (25lbs)	14kg (31lbs)	18kg (40lbs)		
Mounting		Shelf, rack or wall; horizontal or vertical mount							
Cooling		Forced air (fan cooled) with optional external fan cooling for enclosure							
Display		Full graphic LCD, 480x272 pixels, Resistive touch screen							
Communication Ports		<ul style="list-style-type: none"> <li>2 x RJ45: Ethernet</li> <li>1 x RJ11: Battery Temperature Compensation</li> <li>1 x RJ12: for Alpha CAN devices</li> </ul>			<ul style="list-style-type: none"> <li>1 x USB-A: For upgrades or file management via a standard USB flash drive</li> <li>1 x USB-Mini B: For soft shutdown using MegaTec protocol complaint client</li> </ul>				
Power Connectors Standard		Hardwired In/Out*****							
Indicators		Solid Green: Line Mode, Flashing Green: Inverter mode, Yellow/Amber: Minor alarms, Red: Major/Critical alarms							
Dry Contacts		<ul style="list-style-type: none"> <li>C1 to C5 Programmable NO/NC (250Vac, 1A)</li> <li>3 user inputs</li> </ul>			<ul style="list-style-type: none"> <li>C6: 24Vdc @ 500mA, C8 24Vdc/10mA(FXM 650-24)</li> <li>C6: 48Vdc @ 500mA, C8: 48Vdc/10mA (FXM 650-48,1100,2000)</li> </ul>				
Agency Compliance									
Electrical Safety: UL 1778, 60950-1, CAN/CSA-C22.2 No. 107.3-14		Marks: 120: cCSAUS, 230: CE		RoHS: Yes		EMC: FCC CFR47 Part 15, Class A, CSPR22, EN55022 Level A			
*At nominal AC Input, full load and at 25 °C ambient temperature, ** At nominal DC Input, full load and at 25 °C ambient temperature, *** Derates 1.4% per °C past listed temperature range until a maximum of 74 °C, Refer to manual for nonlisted voltage settings. **** Derates 2 °C per 300m (1000ft) above 1400m(4500ft), ***** Measured at 25 °C ambient temperature, ***** FXM 1100-48 120Vac model also available in Hardwired Input/ Output and Dual 5-15R Output OR IEC Input/Output.									