



ALPHA[®] FXM AND FXM-HP RUGGED UPS MODULE COMPARISON GUIDE



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Alpha
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FXM HP UPS EDUCATION SERIES



ALPHA® FXM & FXM-HP UPS COMPARISON

Our legacy model FXM UPS module has set the standard for high performance and reliability for many years. Our new FXM-HP UPS module is based off of the same building blocks and has a host of new and exciting features that continue that namesake. The below list is a comparison of just some of the features.

FEATURE	FXM	FXM-HP
Automatic voltage regulation	✓	✓
Inverter	✓	✓
3 stage temperature compensated charging	✓	✓
Programmable dry contact relays	✓	✓
4.3" high resolution color touchscreen display	✗	✓
System fully configurable via LCD or web	✗	✓
LCD and web dashboard is user configurable	✗	✓
Settings wizards	✗	✓
Clone configuration via USB or remote	✗	✓
Update software/firmware locally or remote	✓	✓
Update software/firmware via USB drive	✗	✓
USB for mouse and keyboard	✗	✓
Ethernet ports	✓	✓✓
Enhanced security w/256 bit user and PW encryption	✗	✓
Multiple users with settable permissions	✗	✓
CAN Bus for ADIO interfaces	✗	✓
Event log	✓	✓
Alert log	✓	✓
Battery log	✗	✓
Outage log	✓	✓
Datalogging	✗	✓
Performance logs	✗	✓
Power flow on web GUI	✗	✓
Configurable alarms	✗	✓
User defined threshold and digital alarms	✗	✓
Custom data equations for more control	✗	✓
Drive a single relay with multiple triggers	✗	✓

FXM-HP UPS MODULE NEW FEATURES:

4.3" high resolution color touchscreen display

Allows the user to very quickly see what the system status is and make configuration changes. LCD is easy to read in all lighting conditions, even in full sun!

System fully configurable via LCD or web

All system configurations can be done by LCD or web pages.

LCD and web dashboard is user configurable

The dashboard is comprised of 24 user configurable fields. You can change which field shows in each position. The fields are organized in pages which are easily advanced through.

Settings wizards

Many configuration items have wizards to make setups even easier. Some commonly used wizards are Ethernet and Battery Configuration. The Battery Configuration Wizard has the most common batteries stored for easy setup. Simply select the manufacturer and model.

Clone configuration via USB or remote

Configuration Cloning allows you to configure one system and then copy to the rest. This can be done locally with a USB flash drive or remotely over ethernet.

Update software/firmware via USB

Software and firmware can be updated locally via USB flash drive or remotely over ethernet.



USB for mouse and keyboard

The USB port can also be used to drive the system with a keyboard and mouse.

Ethernet ports

There are two Ethernet ports on the FXM-HP UPS module. Port 1 is by default a static IP address and port 2 is DHCP. These ports are fully user configurable. Port 2 will be used to connect other devices to the FXM-HP UPS module in the future.

Enhanced security w/256 bit user and PW encryption

Modern encryption technology to ensure proper authentication and privacy. Central server authentication and authorization features for additional security layer.

Multiple users

Allows for setting up multiple users with different access permissions.

CAN Bus for ADIO interfaces

ADIO (Analog to Digital Input and Output) interfaces can be added to the system to monitor temperature, DC voltage and current, and drive more dry contact relays.

Event log

FXM UPS module has a 200 row exportable log which contains UPS mode and any alarms or faults. The FXM-HP UPS Event log holds 3000 events and captures UPS and battery mode, outages, configuration changes, relay status, and firmware updates. Log is exportable as csv.

Alert log

The FXM UPS module alarms and faults are part of the event log. The FXM-HP Alert log holds 3000 alerts (alarms) and is exportable as csv.

Battery log

The battery log gives data on charge and discharge cycles of the battery. Log holds 3000 events and is exportable as csv.

Outage log

The outage log shows when an outage occurred and how long it was. The FXM UPS module showed the most recent 5 outages and the FXM-HP logs up to 3000 and shows up to 25 on LCD and 300 on web page. Log is exportable as csv.

Datalogging

This feature allows the user to create up to 10 datalogs with each having up to 20 data signals. Datalogs are used to capture values like voltage and current. The data is then shown on a chart and can be exported as csv files.

Performance logs

Performance logs are always recording values while the unit is on, without any user intervention. Some of the logs are AC Output Voltage, AC Input Voltage, AC Output Current, AC Output Power, Battery Voltage, and Battery Current. These logs can be exported as csv files.

Power flow on WEB GUI

This feature gives a visual representation of the system, current flow direction, and input/output values. This is viewable on the web pages only.

Configurable alarms

There are over 60 alarms on the FXM-HP UPS module. These alarms are user configurable - enable, disable, priority levels and whether they drive a dry contact relay.



User defined threshold and digital alarms

The user can add extra alarms by creating Threshold and Digital alarms. Threshold alarms monitor Input/Output values and will activate an alarm when the value is greater or less than the threshold value you set. Digital alarms monitor the condition of certain items and will activate an alarm when the condition is met.

Custom data equations for more control

Custom Data allows you to monitor state or numeric variables by an equation you create. You can then drive a dry contact relay, control a timer or a counter, and control a datalog.

Drive a single relay with multiple triggers

Dry contact relays can be driven by more than one condition and with custom equations using Custom Data.

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