



# XM CableUPS®

- Uninterrupted output power provides clean, safe, reliable power.
- Total power protection during normal, battery or maintenance operations.
- Proven reliability with hundreds of thousands in use throughout the world.
- Fully modular design with removable modules allows easy upgrades and maintenance.
- Plug-in logic upgrades provide convenient automatic testing and status monitoring interface.
- Temperature compensated battery charger for increased battery life and lower maintenance costs.



The Alpha XM Series power supply provides clean, reliable UPS-grade standby power. Proven ferroresonant design provides fully regulated output voltage, surge and short circuit protection, plus complete input and output power conditioning under all modes of operation and loading. Designed for today's most common powering applications, and to ensure maximum operating efficiencies, the XM is available in a variety of configurations—including modules with field-selectable output voltages of 60, 75 and 90V. The inverter and charger electronics are located on a removable module which can be replaced or upgraded in just minutes—without interrupting power to the cable plant.



## General Specifications

Note: General Specifications reference most commonly used models. For model-specific information, consult product user's manual.

Frequency Stability	0.05% (inverter mode)	Overload & Short Circuit Current	150% of maximum rating
Transformer Efficiency	Normal mode: 90% or better Inverter mode: 80% or better	Dimensions	XM 60XX Series: 15.0" W x 7.2"H x 12.3"D (381mm x 183mm x 312mm) XM 90XX Series: 15.0" W x 8.75"H x 13.5"D (381mm x 222mm x 343mm)
Transfer Characteristics	True uninterrupted output in all modes of operation	Battery Charger Type:	Float/Equalize Charger (current-limited and temperature compensated)
Finish	Black, epoxy powder coat	Charge Current:	10 Amps maximum
Operating Temperature	-40 to +131°F (-40 to +55°C)	Recharge Time:	8-12 hours (typical)
Front Panel Indicators	System Status, Output Current, Charger Status, APM Status	Batteries:	Two three or four 12 VDC, gelled-electrolyte or equivalent

## Nominal Specifications

XM Module	Input Voltage (VAC)	Input Frequency (Hz)	Typical Input Current (A)	Output Voltage (VAC)	Max. Output Current (A)	Max. Output Power (VA)	Typ. Output Load (VA)	Standby Time (hrs)	Weight (lbs/kg)	Battery Voltage (VDC)
XM 6007	120	60	4	63	7	420	336	6.0	39/ 17.6	36
XM 6010	120	60	5	63	10	600	480	4.2	44/ 19.9	36
XM 6015	120	60	7	63	15	900	720	2.6	55/ 25.9	36
XM 6010-24	120	60	5	63	10	600	480	2.6	40/ 18.1	24

(2-battery version)

XM 6007 E	230	50	2	63	7	420	336	6.0	42/ 19.0	36
XM 6010 E	230	50	3	63	10	600	480	4.2	40/ 18.1	36
XM 6015 E	230	50	4	63	15	900	720	2.6	63/ 28.4	36
XM 6015 CE*	230	50	4	50/ 63	15	900	720	3.6	65/ 29.6	48

\*Meets EU low-voltage directive 73/23/EEC (EN50091, EN60950, EN55022, EN61000-3, 2 & 3, EN60081-2, 3 & 4, EN60081-5)

XM 6007 P	220	60	2	63	7	420	336	6.0	41/ 18.5	36
XM 6010 P	220	60	3	63	10	600	480	4.2	47/ 21.2	36
XM 6015 P	220	60	4	63	15	900	720	2.6	58/ 26.2	36
XM 6005-24-J6	100	60	3	63	5.3	320	256	5.4	35/ 16	24
XM 6005-24-J5	100	50	3	63	5.3	320	256	5.4	38/ 17	24
XM 6010-J6	100	60	6	63	10	600	480	4.2	44/ 20	36
XM 6010-J5	100	50	6	63	10	600	480	4.2	47/ 21	36
XM 6010-24-J6	100	60	6	63	10	600	480	2.6	40/ 18	24
XM 6010-24-J5	100	50	6	63	10	600	480	2.6	42/ 18	24
XM 6015-J6	100	60	9	63	15	900	720	2.6	55/ 25	36
XM 6015-J5	100	50	9	63	15	900	720	2.6	63/ 29	36

Selectable Output Power Modules (Power and typical load values based on 90V output setting.)

XM 9015 P	220	60	6	87/ 73/ 63	15	1350	1080	1.6	63/ 28.6	36
XM 9015 E	230	50	5	87/ 73/ 63	15	1350	1080	1.6	72/ 32.7	36
XM 9015	120/ 240	60	5/10	87/ 73/ 63	15	1350	1080	1.6	72/ 32.7	36
XM 1350 T	120/ 240	60	5/10	87/ 73/ 63	15/18.5/22.5	1350	1080	2.2	78/ 35.5	48

(4-battery version)

Note: Standby times based on three 100 Ah batteries at 77°F (25°C) and typical 80% load. Figures will vary according to: battery age, capacity & condition; type of load, temperature and other factors. Typical input current measurements are based on the charger providing "float" charge voltage/current to the batteries.

## Optional Features

- USM** **Universal Status Monitor:** The USM is a field replaceable, plug-in logic card that allows the XM power supply to be configured for pre-existing status monitoring systems and is configured for parallel applications. The USM facilitates use with common amplifier monitoring systems such as Scientific Atlanta "6585" (SA), Magnavox "6DSS" (M) and "Lifeline" (LL), Jerrold "RSM" (J), AM Communications "TMC-8061" (AM), Texscan "Vital Signs" (T), C-COR "Quick Alert" (C), and Superior Electronics "Cheetah" (SEG).
- APM-XP** **Automatic Performance Monitor:** The APM-XP is a field replaceable, plug-in logic card that plugs directly into the edge connector located on the back of the main circuit module. It upgrades the power supply's standard logic functions to include a self-test feature that automatically tests the batteries and inverter at pre-selected intervals, plus a selectable "after outage" equalization feature to minimize battery recharging times. If a problem is detected during the self-test mode, the APM activates an alarm circuit and flashes the red "CHECK BATTERIES" or "CHECK INVERTER" LEDs, located on the front panel, to indicate the circuit that has failed the test.
- SDD** **Standby Data Display:** The dual-function, standby data display is used to keep track of accumulated inverter run time, and to record the number of standby events. The elapsed time clock is activated only during inverter operation. The standby events counter displays the number of standby events lasting longer than 60 seconds in duration.
- SSR** **Standby Status Relay:** this relay accommodates systems requiring remote alarms by providing dry "Form C" contacts. The relay emulates the function of the LRI and activates whenever Standby operation is initiated. If the module is equipped with APM, the alarm circuit will flash whenever a fault condition is detected. The contacts are configured "common" and "normally open" (contacts close when alarm is present). If required, the contacts can be reconfigured "normally closed" by resoldering the jumper located on the module's back plane board.