

Power

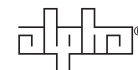
XM Series 2

CableUPS® Power Supply



- Proven CableUPS® uninterruptible power
- 100% front panel test points and connections
- User programmable system control and status monitoring options
- Plug in modules allow easy migration from non-standby to standby to centralized powering
- Optional dual independent outputs provide improved protection and enhanced system reliability
- Programmable, 3-stage, 10A temperature-compensated battery charger
- LCD Smart Display provides operating data, status information and troubleshooting aid

Alpha's XM Series 2 power supply represents industry leading power technology. A variety of power ratings make it ideal for network architectures requiring additional power. Advanced product design features include complete modularity, increased output power and N+1 redundancy capability. Built-in generator compatibility as well as flexible system control and advanced status monitoring options support easy migration to centralized node powering.



XM Series 2

Nominal Specifications

Model	Input Voltage (VAC)	Input Frequency (Hz)	Typical Input Current (A)	Output Voltage (VAC)	Output Current (A)
XM2-608CE	230 (+15%/-20%)	50 (±3%)	2	63/48	8
XM2-615CE	230 (+15%/-20%)	50 (±3%)	4	63/48	15
XM2-622CE -48	230 (+15%/-20%)	50 (±3%)	6	63/48	22.5

Model	Typ. Output Load (VA)	Max. Output Power (VA)	Typ. Standby Time (hrs)	Battery Voltage (VDC)	Input Power Factor
XM2-622CE-48	1080	1350	2.88	48	>0.90 at full load
XM2-608CE	384	480	7.18	36	>0.90 at full load
XM2-615CE	720	900	3.32	36	>0.90 at full load

Note: Standby times based on 180GXL batteries at 25°C (77°F) and typical 80% load. Figures may vary according to battery age, capacity & condition; type of load, temperature and other factors. Note: Typical input current measurements are based on 80% load, highest output voltage rating, and the charger providing "float" charge voltage / current to the batteries.

General Specifications

Note: General Specifications reference most commonly used models. For model-specific information, consult product user's manual. Other voltages and configurations may be available, for more information, contact your Alpha Sales Representative.

Output:	
Waveform:	Quasi-square wave
Regulation:	±5%
Frequency Stability:	±0.05% inverter mode, ±1% normal mode
Short Circuit Current:	150% of maximum current rating
Transformer Efficiency:	90% typical line mode, 80% typical standby mode
Transfer Characteristics:	Uninterrupted output

Battery Charger	
Temperature Compensation:	Programmable (0–5mV/Cell/°C)
Charger Current (average):	10A at 80% load and nominal input (5A for XM2-608)
Charge Time:	8hrs typical to 90% capacity
3-Stage:	Bulk, acceptance, float
Power Factor Corrected:	(PFC) battery charger

Mechanical	
Front Panel Test Points:	Output voltage, battery voltage
Front Panel Connections:	All input, output and communication modules
Status Display:	2 x 20 LCD with backlight
Dimensions (mm):	Shelf Mount 381 x 223 x 318
(in):	(15 W x 8.75 H x 12.5 D)
Finish:	Black, epoxy powder coat

Environment	
Operating Ambient	Temp.: -40—+55°C
Relative Humidity:	0–95% non-condensing
Product Compliance:	
EMC Directive, Class B:	EN 50091-2
Low Voltage Directive:	EN 50091-1 EN 60950

Options	
Dual Outputs with Current Limits (specify PIM option)	
PIM 4+1 (5 outputs)	
N+1 Redundancy (specify PIM option, see below)	
SSC - Serial System Controller	
USM-2.5 Communication Interface - Universal Status Monitoring	
DSM card - Digital Status Monitoring - Compliant interface for SCTE HMS 022	

Smart Display Features	
Built-in Diagnostics Output Power (W)	
Output Voltage % load	
Input Voltage Charger current	
Output Current Input frequency	
Battery Current Battery temperature	
Output VA	

Standard Features

Front access modular components
 Front panel connections and test points
 Power Factor Corrected (PFC) Battery Charger
 Standby Events Counter and Timer
 Input and output voltage display
 Battery voltage and current display
 Automatic Performance Monitor (APM)
 Smart Display
 Standby Status Relay
 Programmable System self test
 Remote Temperature Sensor (RTS)

Optional Features

USM-2.5: Universal Status Monitor: The USM-2.5 is a field replaceable, user configured plug-in logic card that allows the XM Series 2 power supply to be configured for pre-existing status monitoring systems and is configured for parallel applications. The USM facilitates use with all common monitoring systems (specify vendor).

DSM: Digital Status Monitoring: The all digital interface from the power supply to the transponder utilizes a simple serial interface cable. It eliminates the complex parallel wire harness normally used as well as the analog errors characteristic of traditional monitoring methods. Individual battery voltages and enclosure tamper monitored from the HMS. SCTE HMS022 compliant.

SSC: Serial System Controller: In single or multiple XM2 installations, the SSC provides status monitoring functions combined with coordinated battery charging, individual battery monitoring, and self test for individual components. Provides field technicians local interface for programming system parameters and system maintenance data.

PIM / N+1: Protective Interface Module: The PIM protects system components and provides isolation between distribution legs by shutting down the load during over-current conditions. The PIM has a user programmable over-current threshold (24.8A), as well as a programmable over-current tolerance period which specifies the time in seconds (1-10) that an over-current condition will be allowed on the XM Series 2 output before the individual output channel is shut down. A user programmable retry limit allows the user to select how many times (1-40) the PIM will attempt to reconnect an output which was shut down for an over-current condition. The PIM also provides redundant power supply capability (N+1) for multiple power supply configurations.

For contact information visit www.AGIPower.com

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