

# **XM SERIES 2**

**CABLEUPS® POWER SUPPLY**



- Proven CableUPS® uninterruptible power supply
- Programmable LCD Smart Display
- Modular design with hot-swappable inverter
- Optional embedded transponder
- Programmable temperature-compensated battery charger

Alpha's XM2 Series power supply is the industry's leading power technology. A variety of power ratings make it an ideal match for network architectures worldwide. Advanced product design features include modularity, increased output power and N+1 redundancy capability. Optional independent dual outputs provide additional protection and enhanced system reliability. AC or DC generator compatibility as well as flexible system control and advanced status monitoring options support easy migration to centralized powering.

## XM2 Series

### Nominal Specifications

Model	Input Voltage (Vac)	Input Frequency (Hz)	Output Voltage (Vac)	Output Current (A)	Maximum Output Power (VA)	Typical Standby Time (min)	Battery Voltage (Vdc)	Approx. Weight (lb/kg)
XM2-922:	200/240	60	63/75/87	22.5	2025	110	48	92/42
XM2-922 HV:	200/240	60	63/75/89	22.5	2025	110	48	92/42
XM2-1350-48:	120/240	60	63/75/87	15/18/22.5	1350	180	48	70/32
XM2-915:	120/240	60	63/75/87	15	1350	125	36	70/32
XM2-915 HV:	120/240	60	63/75/89	15	1350	125	36	72/33
XM2-910:	120/240	60	63/75/87	10	900	200	36	62/28
XM2-906G6:	120/240	60	63/87	8/6	525	360	36	60/27
XM2-915P:	190/220/253	60	63/75/87	15	1350	125	36	70/32
XM2-615P:	190/220/253	60	63	15	900	200	36	62/28
XM2-915M:	100/112/127	60	63/75/87	15	1350	125	36	70/32
XM2-615M:	100/112/127	60	63	15	900	200	36	62/28
XM2-906G5:	115/230	50	63/87	8/6	525	360	36	64/29
XM2-915E:	190/220/247	50	63/75/87	15	1350	125	36	82/37
XM2-615E-48:	220	50	63	15	253	280	48	70/32
XM2-615E:	190/220/247	50	63	15	900	200	36	70/32
XM2-1350J5 CFR:	200	50	63/75/87	15/18/22.5	1350	125	36	95/29
XM2-615J5:	100	50	63	15	900	200	36	62/28
XM2-615J5 CFR:	100	50	63	15	900	200	36	70/32

Note: Standby times based on single string 195GXL 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: 20A utility service required for XM2-915, XM2-915 HV, XM2-915M, XM2-1350, XM2-1350-48 and 15A utility service required for XM2-615M, XM2-610, XM2-615, XM2-615J5, XM2-615J5 CFR, XM2-906G6 when using 120VAC input.

### General Specifications

#### Input

Power Factor:	>0.90 at full load
Input Voltage Tolerance:	±15%
Input Voltage Tolerance (XM2-915/922 HV):	-25 to +15%
Input Voltage Tolerance (XM2-906G6/906G5):	-30 to +20%
Frequency:	±3%

#### Output

Waveform:	Quasi-square wave
Voltage 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 to 5mV/Cell/°C)
Charger Current:	10A at 80% load and nominal input (bulk charge mode)
Three Stage:	Bulk, accept, float

#### Mechanical

Status Display:	2 x 20 LCD with backlight
Dimensions (in):	15W x 8.75H x 13D
(mm):	381W x 222H x 330D
Finish:	Black, Epoxy Powdercoat

#### Environment

Operating Temperature:	-40 to 55°C/-40 to 133°F
Relative Humidity:	0 to 95% non-condensing

#### Safety (NRTL/C)

UL1778 and CSA C22.2 No.107.1, CSA C22.2 No. 107.3

UL/CSA 60950-1

#### Electromagnetic Compatibility (EMC)

FCC Part 15, sub-part B, Class A

#### Smart Display Features

Output Current	Output Power (W)
Input Frequency	Output Voltage
Battery Voltage	% load
Battery Temperature	Input Voltage
Output VA	Charger Current
Standby Time	Number of Events
Built-in Diagnostics	

**Note: General Specifications reference most commonly used models. For model-specific information, consult product manual. Other voltages and configurations may be available. For more information, contact your Alpha sales representative.**

## XM2 Series

### 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 monitoring
- Smart display
- Programmable system self test
- Remote temperature sensor

### Optional Features

**PIM/N+1 Protective Interface Module:** Provides two programmable outputs from a single XM Series 2. 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, as well as a programmable over-current tolerance period which specifies the time in seconds (1 to 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 to 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.

**ATS Automatic Tap Switch:** The ATS extends the input AC operating voltage range from  $\pm 15\%$  to  $\pm 30\%$ . The ATS is used when a broader input operating range is needed due to utility voltage fluctuations. Only available with input voltage tapped modules. Currently available in XM2-615 P/E/M and XM2-915 P/E/M. Not used in the United States or Canada.

### Optional Status Monitoring Cards

#### DSM - DOCSIS® Status Monitor



- XM2-HP, XM2 and GMX embedded status monitoring
- DOCSIS, EuroDOCSIS 2.0 and ANSI/SCTE HMS compatible
- SNMP, web and local access for monitoring and advanced diagnostics
- Monitors up to two 36V or 48V battery strings
- Optional VoIP testing

#### DSM2- DOCSIS® Status Monitor



- XM2-HP, XM2 and GMX embedded status monitoring
- DOCSIS and ANSI/SCTE HMS compatible
- Advanced diagnostics when combined with XM2-HP
- SNMP, web and local access for monitoring and advanced diagnostics
- System management for multiple power supply and generator installations
- Monitors up to four 36V or 48V battery strings
- Optional VoIP testing