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

<table>
<thead>
<tr>
<th>Model</th>
<th>Input Voltage (VAC)</th>
<th>Input Frequency (Hz)</th>
<th>Typical Input Current (A)</th>
<th>Output Voltage (VAC)</th>
<th>Output Current (A)</th>
</tr>
</thead>
<tbody>
<tr>
<td>XM2-608CE</td>
<td>230 (±15%/-20%)</td>
<td>50 (±3%)</td>
<td>2</td>
<td>63/48</td>
<td>8</td>
</tr>
<tr>
<td>XM2-615CE</td>
<td>230 (±15%/-20%)</td>
<td>50 (±3%)</td>
<td>4</td>
<td>63/48</td>
<td>15</td>
</tr>
<tr>
<td>XM2-622CE-48</td>
<td>230 (±15%/-20%)</td>
<td>50 (±3%)</td>
<td>6</td>
<td>63/48</td>
<td>22.5</td>
</tr>
</tbody>
</table>

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<thead>
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</thead>
<tbody>
<tr>
<td>XM2-622CE-48</td>
<td>1080</td>
<td>1350</td>
<td>2.88</td>
<td>48</td>
<td>&gt;0.90 at full load</td>
</tr>
<tr>
<td>XM2-608CE</td>
<td>384</td>
<td>480</td>
<td>7.18</td>
<td>36</td>
<td>&gt;0.90 at full load</td>
</tr>
<tr>
<td>XM2-615CE</td>
<td>720</td>
<td>900</td>
<td>3.32</td>
<td>36</td>
<td>&gt;0.90 at full load</td>
</tr>
</tbody>
</table>

Note: Standby times based on 180GX 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

- **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):** 381 x 223 x 318 (15 W x 8.75 H x 12.5 D)
- **Finish:** Black, epoxy powder coat

**Environment**

- **Operating Ambient Temp.:** -40°C to +55°C
- **Relative Humidity:** 0% - 95% non-condensing
- **Product Compliance:** EN 50091-1
- **Low Voltage Directive:** 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 1% load**
- **Input Voltage Charger current**
- **Current Output In frequency**
- **Battery Charger Current 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)**
- **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 HMS 022 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 (1-40) 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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