XM2-HP and XM2 CableUPS®
FEATURING THE ™ INTELLIGENT INVERTER MODULE
INDUSTRY LEADING HIGHEST EFFICIENCY FOR LOWER OPERATING COSTS

COMMOM INTELLIGENT INVERTER MODULE FOR XM2-HP AND XM2 PLATFORMS

WIDE RANGE OF MODELS FOR EFFECTIVE LOAD MATCHING
- XM2-HP MODELS AT 6, 15 AND 18 AMP POWER LEVELS
- XM2 MODELS AT 6, 8, 10 AND 15 AMP POWER LEVELS
- XM2-CE MODELS AT 15 AND 22 AMP POWER LEVELS

DISPLAYS CRITICAL SMART DOCSIS® PARAMETERS AND INDIVIDUAL BATTERY VOLTAGES

UPDATED INTERNATIONAL ICONS AND KEYPAD

SHARPER EASY-TO-READ BLUE LCD SMART DISPLAY

www.alpha.com
Intelligent Inverter Module
Reliable Installation and Set-up with Optional Smart DOCSIS® Transponder

Reliable Provisioning of Smart DOCSIS Transponder

- Displays Transmit (TX) and Receive (RX) power levels (dBmV) to ensure communications with the network operating center.
- Accurate transmit and receive RF levels verify proper attenuation.

Reliable Provisioning of Network Communications

- Displays IP address to verify network communication.
- Displays MAC address to verify correct provisioning.

Optimal Charging of AlphaCell Batteries

- Battery set-up menu allows the selection of AlphaCell models to optimize charging and prolong battery life.
- Monitors individual battery voltage to help quickly identify and replace bad batteries.
**Highest Efficiency CableUPS®**

**Annual Savings of XM2-615CE-HP vs. XM2-615E-CE Power Supplies**

Note: Graph based upon energy costs calculated at an average for Europe of 0.15€/kWh

**Annual Savings of XM2-918HP and XM2-915 Power Supplies vs. Competitor**

Note: Graph based upon energy costs calculated at a U.S. average of $.1051/kWh
XM2-HP Product Family Provides Maximum Efficiency

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<thead>
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<th>International Markets</th>
<th>Network Load</th>
<th>XM2-HP 90V 18 Amps</th>
<th>XM2 60V 22 Amps</th>
<th>XM2 90V 15 Amps</th>
<th>XM2-HP 90V 18 Amps</th>
<th>XM2 90V 10 Amps</th>
<th>XM2-HP 90V 6 Amps</th>
<th>XM2-HP 90V 3.3 Amps</th>
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<tbody>
<tr>
<td>XM2-300HP*</td>
<td>18</td>
<td>27</td>
<td>21</td>
<td>18</td>
<td>16</td>
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<td>XM2-906HP</td>
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<td>XM2-910</td>
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<td>XM2-615CE-HP</td>
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<td>12</td>
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<tr>
<td>XM2-915M, XM2-915P</td>
<td>12</td>
<td>18</td>
<td>15</td>
<td>12</td>
<td>10</td>
<td>8</td>
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<td>XM2-622CE</td>
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<td>XM2-918HP</td>
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</table>

* Visit www.alpha.com for XM2-300HP product specifications
# XM2-HP and XM2 CableUPS® International Specifications

## Electrical

<table>
<thead>
<tr>
<th>Models:</th>
<th>XM2-906HP</th>
<th>XM2-906GS</th>
<th>XM2-808GS</th>
<th>XM2-910</th>
<th>XM2-915E</th>
<th>XM2-915M</th>
<th>XM2-915P</th>
<th>XM2-622CE</th>
<th>XM2-615CEHP</th>
<th>XM2-918HP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input Voltage Window:</td>
<td>-30 to +20%</td>
<td>-30 to +20%</td>
<td>-30 to +20%</td>
<td>-20 to +15%</td>
<td>-20 to +15%</td>
<td>-20 to +15%</td>
<td>-20 to +15%</td>
<td>-20 to +15%</td>
<td>-20 to +15%</td>
<td>-20 to +15%</td>
</tr>
<tr>
<td>Input Voltage Window w/ATS:</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
<td>-30 to +25%</td>
<td>-30 to +25%</td>
<td>-30 to +25%</td>
<td>n/a</td>
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<tr>
<td>Input Frequency:</td>
<td>60Hz</td>
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<td>50Hz</td>
<td>60Hz</td>
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<tr>
<td>Input Frequency Window:</td>
<td>±3Hz</td>
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<tr>
<td>Output Voltage (Vac):</td>
<td>63/87</td>
<td>63/87</td>
<td>63</td>
<td>63/75/87</td>
<td>63/75/87</td>
<td>63/75/87</td>
<td>63/75/87</td>
<td>63/48</td>
<td>63/48</td>
<td>63/75/87</td>
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<tr>
<td>Output Current (A):</td>
<td>8/8</td>
<td>8/8</td>
<td>8</td>
<td>10/10/10</td>
<td>15/15/15</td>
<td>15/15/15</td>
<td>22/22</td>
<td>15/15</td>
<td>22/18/18</td>
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<tr>
<td>Max Output Power (VA):</td>
<td>540</td>
<td>540</td>
<td>540</td>
<td>900</td>
<td>1350</td>
<td>1350</td>
<td>1350</td>
<td>900</td>
<td>1620</td>
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<tr>
<td>Output Waveform:</td>
<td>Quasi-square wave</td>
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<tr>
<td>Voltage Regulation:</td>
<td>±5%</td>
<td>±5%</td>
<td>±5%</td>
<td>±5%</td>
<td>±5%</td>
<td>±5%</td>
<td>±5%</td>
<td>±5%</td>
<td>±5%</td>
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</tr>
<tr>
<td>Output Frequency Stability:</td>
<td>Line Mode: 60Hz Nominal</td>
<td>50Hz Nominal</td>
<td>60Hz Nominal</td>
<td>50Hz Nominal</td>
<td>60Hz Nominal</td>
<td>50Hz Nominal</td>
<td>60Hz Nominal</td>
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<tr>
<td></td>
<td>Inverter Mode: 60Hz, ±0.05%</td>
<td>50Hz, ±0.05%</td>
<td>60Hz, ±0.05%</td>
<td>50Hz, ±0.05%</td>
<td>60Hz, ±0.05%</td>
<td>50Hz, ±0.05%</td>
<td>60Hz, ±0.05%</td>
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<tr>
<td>Short Circuit Protection:</td>
<td>&lt;150% of maximum current rating</td>
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<tr>
<td>Transfer Characteristics:</td>
<td>Uninterrupted output</td>
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<tr>
<td>Battery Voltage (Vdc):</td>
<td>36</td>
<td>36</td>
<td>36</td>
<td>36</td>
<td>36</td>
<td>48</td>
<td>36</td>
<td>36</td>
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<tr>
<td>Efficiency (Typical Load Range):</td>
<td>Line Mode: 80-87%</td>
<td>86-90%</td>
<td>88-92%</td>
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<td></td>
<td>Standby Mode: 79-84%</td>
<td>82-85%</td>
<td>84-86%</td>
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</tbody>
</table>

## Battery Charger

### Temperature Compensation:
Programmable (0 to 5mV/°C)

### Charger Current:
10A at 80% load and nominal input (bulk charge mode)

### Three Stage:
Bulk, Accept, Float

## Mechanical

### Status Display:
2 x 20 Blue LCD with backlight

### Dimensions H x W x D (in/mm):
8.8 x 15 x 13 / 222 x 381 x 330

### Approx. Weight (lb/kg):
53/24 | 62/28.1 | 62/28.1 | 62/28.1 | 82/37.2 | 70/31.8 | 70/31.8 | 82/37.2 | 70/31.8 | 72/32.7

### Finish:
Black, epoxy powdercoat

## Environment

### Operating Temperature:
-40 to 55°C / -40 to 131°F

### Relative Humidity:
0 to 95% non-condensing

## Agency Compliance

### FCC Part 15 Class A, UL1778, UL1012, CSA 22.2 No. 107.1:
Yes - - Yes - - - - - Yes

### CE, EN50083-2, EN62040-2, EN60950-1, EN60204-1:
- - Yes - - - - Yes Yes -

### CB Scheme, IEC 60950-1, EMC to CISPR22 Class A:
- Yes Yes - Yes Yes Yes Yes Yes - -

## Optional Features

### Standard Protective Interface Module (PIM+N+1):
Provides two programmable outputs from a single XM2 CableUPS power supply for redundancy in critical applications. The PIM protects system components and provides isolation between distribution legs by shutting down the individual load during over-current conditions.

### Five Output Protective Interface Module (PIM):
Provides four programmable outputs from a single XM2 CableUPS power supply for protection in centralized powering applications. The PIM protects system components and provides isolation between distribution legs by shutting down the individual load during over-current conditions. An Optical Network Unit (ONU) output is tied to Output 2.

### Automatic Tap Switch (ATS): (ATS)
The ATS extends the input AC operating voltage range as indicated above. The ATS is used when a broader input operating range is needed due to utility voltage fluctuations and is currently available in XM2-915 E/P/M models. Not used in the United States or Canada.

### Notes:
1 Note: Voltage regulation is maintained over both line and load ranges.
2 Note: Certified to CB Scheme and IEC 60950-1.
3 Note: Available only for XM2-915P-CB models.