XM2-HP and XM2 CableUPS®

FEATURING THE i²M™ INTELLIGENT INVERTER MODULE

alpha® Total Power Solutions

RELIABILITY INTELLIGENCE SUSTAINABILITY EFFICIENCY

International Markets

Reliability, Intelligence, Sustainability, Efficiency

XM2-HP and XM2 CableUPS®

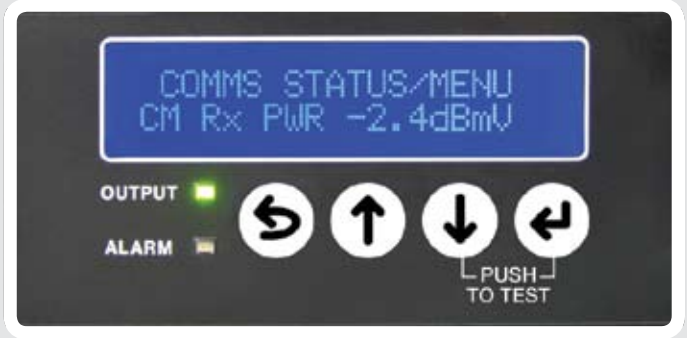
- *INDUSTRY LEADING HIGHEST EFFICIENCY FOR LOWER OPERATING COSTS*
- *COMMON iM INTELLIGENT INVERTER MODULE FOR XM2-HP AND XM2 PLATFORMS*
- *WIDE RANGE OF MODELS FOR EFFECTIVE LOAD MATCHING*
  - *XM2-HP MODELS AT 6, 15 AND 18 AMP POWER LEVELS*
  - *XM2 MODELS AT 6, 8, 10 AND 15 AMP POWER LEVELS*
  - *XM2-CE 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

iM™ 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

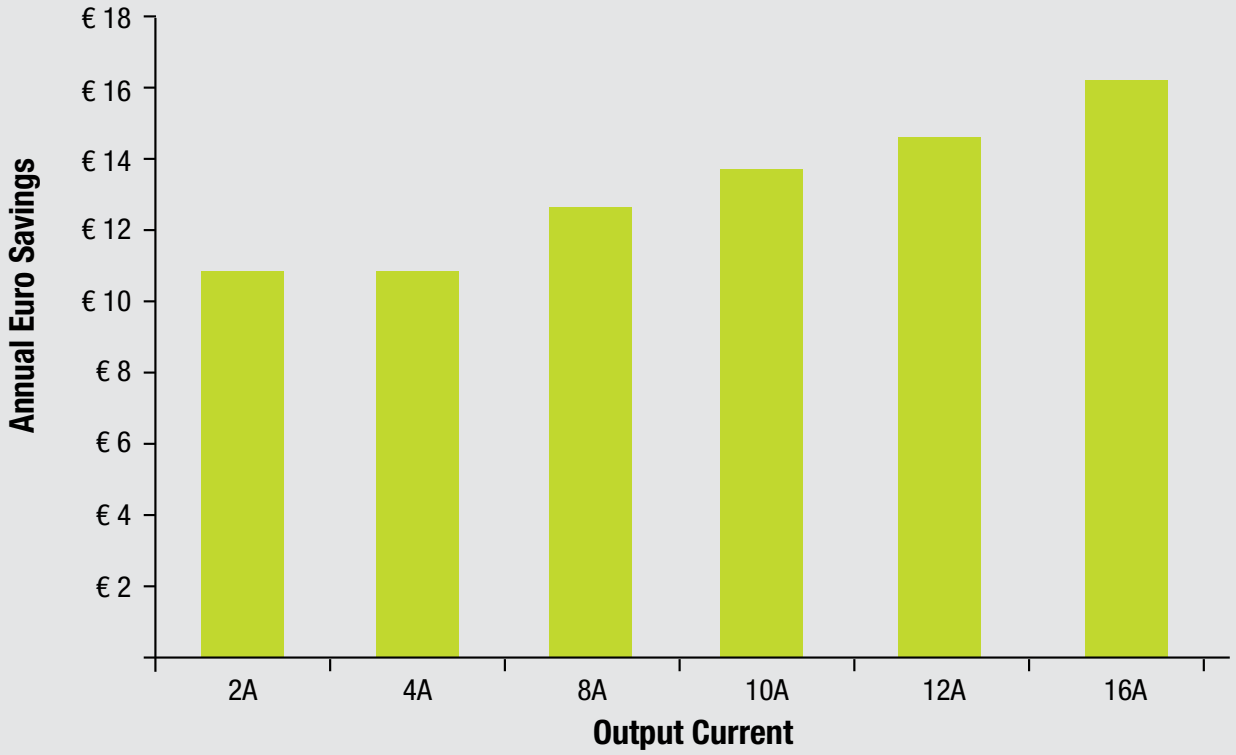
Optimal Charging of AlphaCell Batteries

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

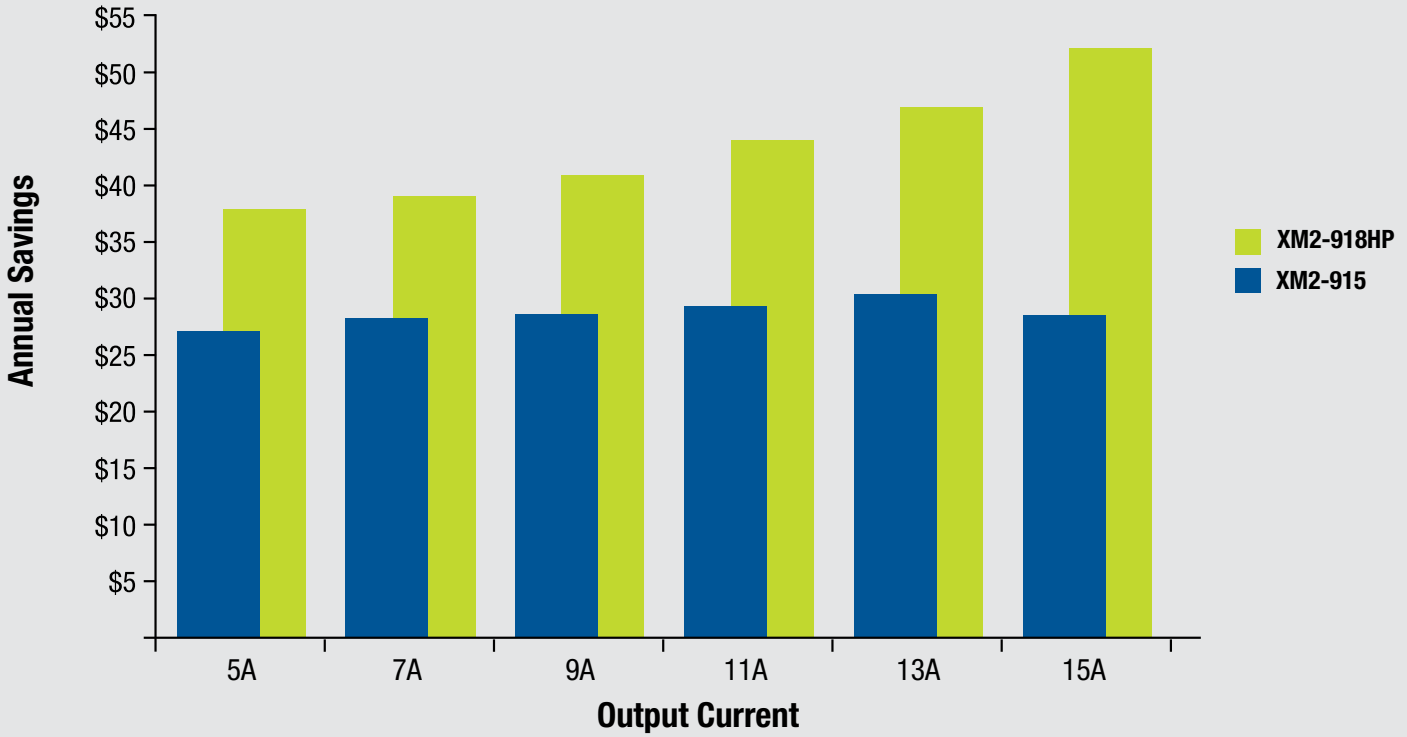
Highest Efficiency CableUPS®

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



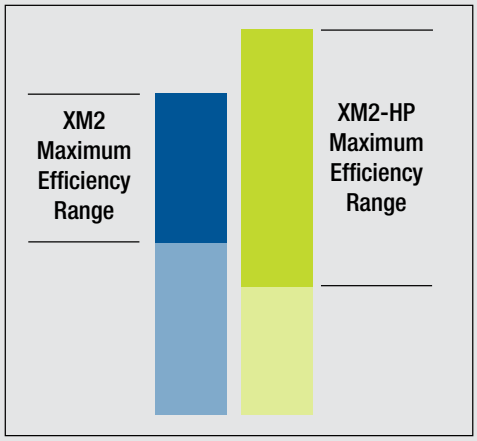
Note: Graph based upon energy costs calculated at an average for Europe of 0.15€/kWh

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



Application Guideline

* Visit www.alpha.com for XM2-300HP product specifications

XM2-HP and XM2 CableUPS® International Specifications

Models:	XM2-906HP	XM2-906G5	XM2-608G5	XM2-910	XM2-915E	XM2-915M	XM2-915P	XM2-622CE	XM2-615CEHP	XM2-918HP
Electrical										
Input Voltage (Vac):	120/240	115/230	115/230	120/240	190/220/247	100/112/127	190/220/253	230	230	120/240
Input Voltage Window:	-30 to +20%	-30 to +20%	-30 to +20%	-20 to +15%	-20 to +15%	-20 to +15%	-20 to +15%	-20 to +15%	-20 to +15%	-20 to +15%
Input Voltage Window w/ATS:	n/a	n/a	n/a	n/a	-30 to +25%	-30 to +25%	-30 to +25%	n/a	n/a	n/a
Input Frequency:	60Hz	50Hz	50Hz	60Hz	50Hz	60Hz	60Hz	50Hz	50Hz	60Hz
Input Frequency Window:	±3Hz	±3Hz	±3Hz	±3Hz	±3Hz	±3Hz	±3Hz	±3Hz	±3Hz	±3Hz
Output Voltage (Vac):	63/87	63/87	63	63/75/87	63/75/87	63/75/87	63/75/87	63/48	63/48	63/75/87
Output Current (A):	8/6	8/6	8	10/10/10	15/15/15	15/15/15	15/15/15	22/22	15/15	22/18/18
Max Output Power (VA):	540	540	540	900	1350	1350	1350	1350	900	1620
Output Waveform:	Quasi-square wave									
Voltage Regulation[1]:	±5%	±5%	±5%	±5%	±5%	±5%	±5%	±5%	±5%	±5%
Output Frequency Stability: Line Mode	60Hz Nominal	50Hz Nominal		60Hz Nominal	50Hz Nominal	60Hz Nominal		50Hz Nominal		60Hz Nominal
Output Frequency Stability: Inverter Mode	60Hz, ±0.05%	50Hz, ±0.05%		60Hz, ±0.05%	50Hz, ±0.05%	60Hz, ±0.05%		50Hz, ±0.05%		60Hz, ±0.05%
Short Circuit Protection:	<150% of maximum current rating									
Transfer Characteristics:	Uninterrupted output									
Battery Voltage (Vdc):	36	36	36	36	36	36	36	48	36	36
Efficiency (Typical Load Range)										
Line Mode:	80-87%			86-90%					88-92%	
Standby Mode:	79-84%			82-85%					84-86%	
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 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, EN62040-1:	-	-	Yes	-	-	-	-	Yes	Yes	-
CB Scheme, IEC 60950-1, EMC to CISPR22 Class A:	-	Yes	Yes	-	Yes[2]	Yes	Yes[3]	-	-	-

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): 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.

[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.

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