



Alpha XM3V-HP CableUPS®

The POWER of Intelligence











Next-Generation POWER

From ground-breaking transformer design improvements to the integration of the most intuitive and user-friendly interface in the industry, the Alpha XM3V-HP CableUPS® incorporates significant technological advancements across the entire power technology platform, and sets the new standard in **intelligent power management**. These advancements focus on delivering three primary benefits:

Improved Efficiency | Optimized Performance | Reduced Operating Costs

AlphaGuard™

Embedded battery balancing to maximize battery life and optimize performance.

Advanced Ferro Technology

Maximum power efficiency under all modes of operation.

AlphaApps

Intelligent diagnostics for remote preventative maintenance of the batteries and power supply.

Advanced Battery Management

Dynamic 5-stage charger technology maximizes AlphaCell® battery life.



AlphaPOP, Three Output Options

- 4 Coax, 2 Coax + 2 Terminal Block,
- 4 Terminal Block.

Alpha Smart-Display

Four-line display with intelligent, virtual keypad for optimal provisioning and diagnostics.

→ AlphaNet[™] DOCSIS[®]-Based Communications

Intelligent monitoring and power system management.

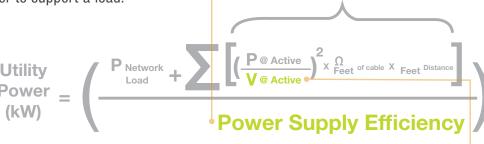


Advanced Efficiency Technology

The Alpha XM3V-HP **triple efficiency** ferro technology optimizes the power supply's performance resulting in significantly reduced utility power consumption and a direct savings in network operating costs.

Highest Line Mode Efficiency.

The XM3V-HP offers the highest line mode efficiency available, requiring less AC utility power to support a load.



Cable Power Loss-I2R

Exclusive, Patent-Protected Transformer Design.

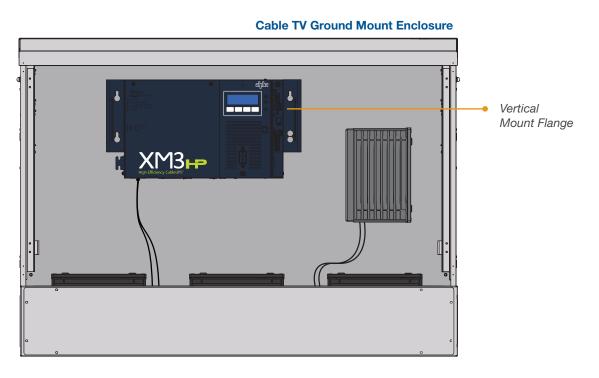
Tightest Output Voltage Regulation.-

Alpha's XM3V-HP provides the tightest output voltage regulation ever offered to reduce I^2R cable power losses.

Maximum Inverter Efficiency.

Significant gains in inverter efficiency directly translates into increased battery runtimes, further improving network performance and power outage recovery capabilities.

Wall Mountable XM3 Platform



Advanced Battery Management

The Alpha XM3V-HP's Advanced Battery Management optimizes battery life and contributes to both reducing capital expenditures and on-going operating costs.

Embedded Battery Balancing.

The Alpha XM3V-HP embedded AlphaGuard uses advanced battery balancing technology to re-direct current from overcharged batteries to the undercharged battery, optimizing battery service life.

36 Volt String



24 Volt String AlphaGuard — BALANCING AlphaGuard — BALANCED 300mA 300mA 13.24Vdc 14.00Vdc 13.62Vdc 13.62Vdc Batteries are balanced within ±0.1Vdc and Optimal Float Voltage is the Float current across each battery is equal. 13.62Vdc Float @ 25°C / 77°F 13.62Vdc at 25°C / 77°F Battery Charger 27.24Vdc Battery Charger 27.24Vdc Float Voltage Float Voltage

Dynamic Multi-Stage Charging.

The Alpha XM3V-HP's dynamic 5-stage battery charging technology provides system batteries with optimal charge management.

Refresh | Bulk | Accept | Float | Rest



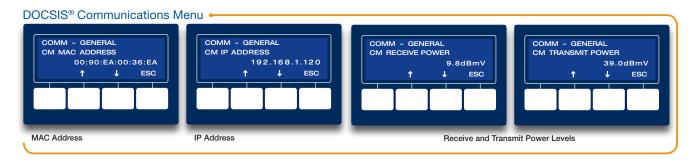
Advanced Intelligence Platform

The Alpha XM3V-HP's internal intelligence provides Network Operation Centers (NOC) with the critical and highly relevant data necessary to **reduce operating expenses** through remote management of the power network.



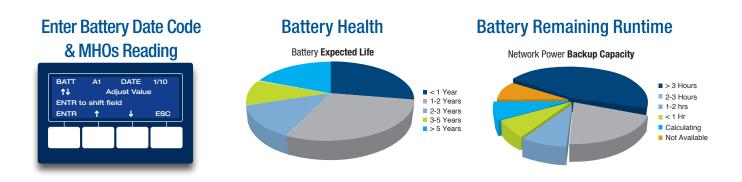
> Embedded DOCSIS® Communications.

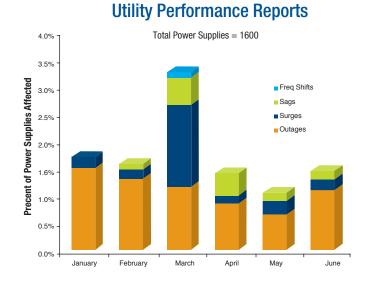
The **XM3V's** *AlphaNet*[™] *Integrated DOCSIS Communications Platform* enables access to all of the XM3V's advanced information and diagnostics through a standard (SNMP) network interface.

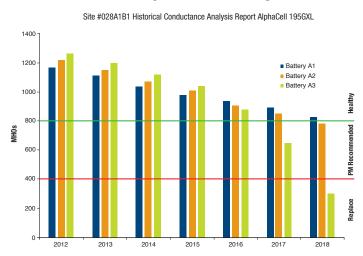


Embedded Alpha Applications.

Power reliability algorithms use real-time data to predict service intervals and battery replacements.







Battery MHOs Trending

XM3V-HP Models:	608CE-HP	608CE-HP-24	618CE-HP	618CE-HP-24	912E-HP	912E-HP-24	906E-HP	906E-HP-24
Parameters								
Nominal AC Input Voltage (VAC):	230	230	230	230	200–240	200-240	200-240	200–240
Nominal Input Frequency (Hz):	50	50	50	50	50	50	50	50
Input Frequency Tolerance (%):	±3	±3	±3	±3	±3	±3	±3	±3
Input Voltage Operating Range Tolerance (%):	-30 / +20	-30 / +20	-30 / +20	-30 / +20	-30 / +20	-30 / +20	-30 / +20	-30 / +20
Output Voltage (VAC, Quasi-square wave):	63	63	63	63	89	89	89	89
Output Voltage Regulation:	-3.5 / +1.5	-3.5 / +1.5	-3.5 / +1.5	-3.5 / +1.5	-5 / +1	-5 / +1	-5 / +1	-5 / +1
Maximum Rated Output Current (A):	8	8	18	18	12	12	6	6
Maximum Output Power (VA):	504	504	1134	1134	1068	1068	534	534
Line Mode Efficiency (%):	Up to 94	Up to 94	Up to 94	Up to 94	Up to 94	Up to 94	Up to 94	Up to 94
Standby Efficiency (%):	Up to 91	Up to 91	Up to 91	Up to 91	Up to 91	Up to 91	Up to 91	Up to 91
Bulk Charger Current (Amps @ 80% Load & Nom line):	6	6	10	10	10	10	6	6
Battery Voltage (VDC):	36	24	36	24	36	24	36	24
Mechanical								
Inverter Module:	Front plug in, hot swappable inverter module							
Dimensions H x W x D (mm):	198.1 x 381 (424.18 w/handle) x 254 (271.8 w/handle)							
Weight (kg):	23.8	23.8	28.8	28.8	28.8	28.8	23.8	23.8
Input Power Connector:	IEC 320/C20	IEC 320/C20	IEC 320/C20	IEC 320/C20	IEC 320/C20	IEC 320/C20	IEC 320/C20	IEC 320/C20
Battery Connector:	Anderson style 75A	Anderson style 75A	Anderson style 75A	Anderson style 75A	Anderson style 75A	Anderson style 75A	Anderson style 75A	Anderson style 75A
Remote Temp Sensor:	Ring lug fastens to negative terminal on center battery							
Display:	4 Line by 20 character LCD with soft-key menu controls							
LRI Connector:	Anderson PP30's	Anderson PP30's	Anderson PP30's	Anderson PP30's	Anderson PP30's	Anderson PP30's	Anderson PP30's	Anderson PP30's
Mounting:	Shelf mounts inside suitably rated electrical enclosure							
Environment								
Operating Temperature (°C):	-40-60 (derate by 2°C per 304.8 m above 914.4 m)							
Storage Temperature (°C):	-40-70	-40-70	-40-70	-4070	-40-70	-40-70	-40-70	-40-70
Humidity (%):	0-95 non-condensing (relative)							
Conformal Coating:	All printed circuit board assemblies to prevent moisture related failure							
Safety Compliance								
EN 60728-11:	Yes	Yes	Yes	Yes	N/A	N/A	N/A	N/A
IEC 60950-1 (CB):	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
IEC 62040-1:	Yes	Yes	Yes	Yes	N/A	N/A	N/A	N/A
Safety Mark:	CE	CE	CE	CE	N/A	N/A	N/A	N/A
EMC Compliance								

Yes

Yes

N/A



IEC/EN 50083-2 (CATV):

IEC/EN 65040-2 (UPS):

CISPR22:

Worldwide Corporate Offices

Yes

Yes

N/A

Yes

Yes

N/A

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