

ALPHA'S NEXT-GENERATION UNINTERRUPTIBLE POWER SUPPLY



NEXT-GENERATION POWER

From ground-breaking transformer design to the most intuitive and user-friendly interface in the industry, the XM3-HP sets the new standard in **intelligent power management**.



The **Alpha XM3-HP CableUPS** incorporates significant technological advancements across the entire power technology platform. These advancements focus on delivering three primary benefits: improved efficiency, optimized performance and reduced operating costs. The XM3-HP also incorporates a wide-range features including:

● 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 batteries and power train

Alpha DOC

Dual Output Controller (DOC) provides two programmable outputs from a single $\mathsf{XM3}\text{-}\mathsf{HP}$

6 Alpha Smart-Display

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

6 Advanced Battery Management

Dynamic 5-stage charger technology maximizes AlphaCell® battery life

AlphaNet[™] DOCSIS[®]-Based Communications Intelligent monitoring and power system management



e³ ADVANCED EFFICIENCY TECHNOLOGY

The Alpha XM3-HP **triple efficiency** ferro technology optimizes the power supply's performance, resulting in significantly reduced utility power consumption and a direct savings in network operations.





Exclusive Patent Protected Design

Moving the inverter winding to the output side of the ferro transformer minimizes conversion losses, improving overall inverter efficiency.

Highest Line Mode Efficiency

The XM3-HP offers the highest line mode efficiency available, requiring less AC utility power to support a load.



Tightest Output Voltage Regulation

Alpha's XM3-HP provides the tightest output voltage regulation ever offered to reduce $\ensuremath{\mathsf{I}}^2\ensuremath{\mathsf{R}}$ 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.

Load Optimization

The XM3-HP is available in 8, 10, 15 and 18A models to best match network load requirements.



ADVANCED BATTERY MANAGEMENT

The Alpha XM3-HP's advanced battery management optimizes battery life and contributes to **reducing both capital expenditures and on-going operating costs**.

Embedded Battery Balancing

The Alpha XM3-HP embedded AlphaGuard uses advanced battery balancing technology to redirect current from overcharged batteries to the undercharged battery, optimizing battery service life.





Dynamic Multi-Stage Charging

The Alpha XM3-HP's dynamic 5-stage battery charging technology provides system batteries with optimal charge management.

BULK | ACCEPT | FLOAT | REFRESH | REST

Extended Runtime

The Alpha XM3-HP's advanced battery management and increased inverter efficiency maximizes battery runtime in the network.

AlphaCell HP (Estimated runtime minutes using XM3-HP @ 90VAC)								
	4	A	6	A	8	A	10)A
Models:	3.5HP	4.0HP	3.5HP	4.0HP	3.5HP	4.0HP	3.5HP	4.0HP
3 Batteries:	540	588	358	394	263	295	204	234
6 Batteries:	1144	1264	771	841	574	624	450	491
	12	2A	14A		16A			
Models:	3.5HP	4.0HP	3.5HP	4.0HP	3.5HP	4.0HP		
3 Batteries:	165	193	137	164	116	142		
6 Batteries:	368	404	308	342	264	295		

AlphaCell GXL (Estimated runtime minutes using XM3-HP @ 90VAC)								
	4	A	6	A	8	A	10	A
Models:	195GXL	220GXL	195GXL	220GXL	195GXL	220GXL	195GXL	220GXL
3 Batteries:	476	550	313	363	229	265	177	205
6 Batteries:	1026	1177	685	789	506	585	396	458
	12	2A	14A		16A			
Models:	195GXL	220GXL	195GXL	220GXL	195GXL	220GXL		
3 Batteries:	142	164	118	136	99	115		
6 Batteries:	322	373	269	311	229	266		



ADVANCED INTELLIGENCE PLATFORM

The Alpha XM3-HP's internal intelligence provides Network Operation Centers (NOC) with the critical and highly relevant data necessary to reduce operating expenses through remote management.

Integrated DOCSIS[®] Communications

The XM3-HP can be used as a network test probe when equipped with an AlphaNet DM3.0 integrated management hub, integrated DOCSIS enables access to all of the XM3-HP's advanced information and diagnostics:

- Full Spectrum Capture
- Bonded Channel Micro Reflections
- Bonded Channel Constellations



DOCSIS Communications Menus



MAC Address

IP Address



Integrated AlphaApps

Power reliability algorithms use real-time data to predict service intervals, battery replacements and offer real-time insights into the health of your HFC network via standard EMS interface. Parameters include:

- Battery Health
- Remaining Battery Runtime
- Trending Battery MHOs
- Utility Performance Reports
- Utility Meter







XM3-HP CableUPS® Specifications

Fine Mode Parameters	908HP	910HP	915HP	918HP				
Nominal AC Input Voltage:	120VAC	120VAC	120VAC, 240VAC	120VAC				
Nominal Input Frequency:	60Hz	60Hz	60Hz	60Hz				
Input Frequency Tolerance (%):	±3	±3	±3	±3				
Input Voltage Operating Range Tolerance (%):	-25 / +15	-25 / +15	-25 / +15	-25 / +15				
Input Voltage Range (VAC):	90-138	90-138	90-138, 173-276	90-138				
Output Voltage (VAC):	63 / 89	63 / 89	63 / 89	63 / 89				
Output Voltage Regulation (%):	-2.5 / +1	-2.5 / +1	-2.5 / +1	-2.5 / +1				
Maximum Rated Output Current:	8A	10A	15A	18A				
Maximum Output Power (VA):	720	900	1350	1620				
Line Mode Efficiency:	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%				
Output Waveform:	Quasi-square wave	Quasi-square wave	Quasi-square wave	Quasi-square wave				
Short Circuit Protection:	<150% of maximum current rating	<150% of maximum current rating	<150% of maximum current rating	<150% of maximum current rating				
Transfer Characteristics:	Uninterrupted output	Uninterrupted output	Uninterrupted output	Uninterrupted output				
Battery Voltage (VDC):	36	36	36	36				
Battery Charger	908HP	910HP	915HP	918HP				
Temperature Compensation:	Programmable (0 to 5mV / Cell / °C)	Programmable (0 to 5mV / Cell / °C)	Programmable (0 to 5mV / Cell / °C)	Programmable (0 to 5mV / Cell / °C)				
Bulk Charger Current:	10A	10A	10A	10A				
5 Stages:	Refresh, bulk, accept, float, rest	Refresh, bulk, accept, float, rest	Refresh, bulk, accept, float, rest	Refresh, bulk, accept, float, rest				
Mechanical	908HP	910HP	915HP	918HP				
Inverter Module:	Front plug in, hot swappable inverter module							
Dimensions H x W x D (in/mm):	7.8 x 15 (16.7 w/handle) x 10 (10.7 w/handle) / 198.1 x 381 (424.18 w/handle) x 254 (271.8 w/handle)							
Weight (lb/kg):	48.5 / 22.0	49 / 22.3	60 / 27.2	60.5 / 27.5				
Input Power Connector (IEC 320/C20):	NEMA 5-15P plug	NEMA 5-15P plug	NEMA 5-15P plug / NEMA 6-15P plug	NEMA 5-20P plug				
Battery Connector:	Anderson style 75A	Anderson style 75A	Anderson style 75A	Anderson style 75A				
Remote Temperature Sensor:	Ring lug fastens to negative terminal on center battery							
Display	4 line x 20 character blue LCD with soft-key menu controls							
Environment								
Operating Temperature:	-40 to 60°C / -40 to 140°F (derate by 2°C / 3.6°F per 1000ft above 3000ft)							
Relative Humidity:	0 to 95% non-condensing							
Agency Compliance								
Safety:	CSA/UL 60950-1 (2 ^{∞1}), UL 1778 (4 [∞]) CSA No. 107.3, C/US							
EMC:	FCC Part 15 Class A							



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