

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
- 2 Advanced Ferro Technology

 Maximum power efficiency under all modes of operation
- 3 AlphaApps
 Intelligent diagnostics for remote preventative maintenance of batteries and power train
- 4 Alpha DOC

 Dual Output Controller (DOC) provides two programmable outputs from a single XM3-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





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.





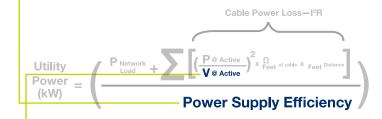


→ Exclusive Patent Protected Design

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 I²R cable power losses.

Maximum Inverter Efficiency

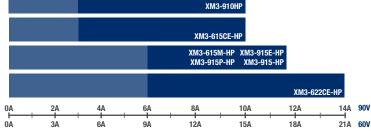
Significant gains in inverter efficiency directly translates into increased battery runtimes, further improving network performance and power outage recovery capabilities.

Load Optimization

The XM3-HP is available in several models to best match network load requirements.



Guide for Optimal Efficiency



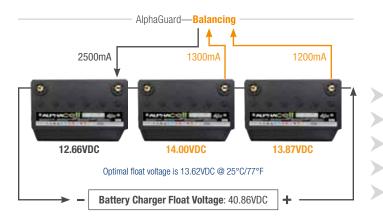


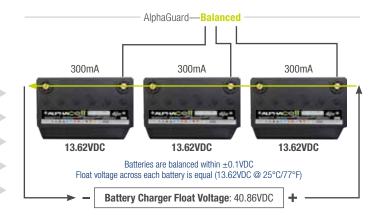
ADVANCED BATTERY MANAGEMENT

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)									
	4A		6A		8A		10A		
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	
	12A		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)									
	4A		6A		8A		10A		
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	
	12A		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			





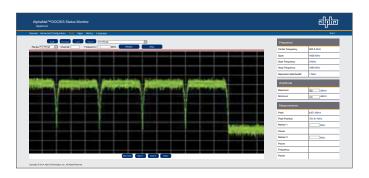
ADVANCED INTELLIGENCE PLATFORM

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:

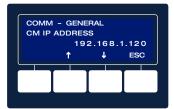
- Full Spectrum Capture
- Bonded Channel Micro Reflections
- Bonded Channel Constellations



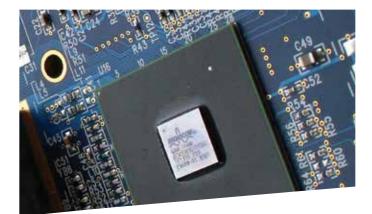
DOCSIS Communications Menus







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









XM3-HP CableUPS® International Specifications

Models:	915M-HP	915P-HP	910E-HP	915E-HP	615CE-HP	622CE-HP	908HP	910HP	915HP	918HP				
Parameters		;												
Nominal AC Input Voltage (VAC):	127	200-240	200-240	200-240	230	230	120	120	120	120				
Nominal Input Frequency:	60Hz	60Hz	50Hz	50Hz	50Hz	50Hz	60Hz	60Hz	60Hz	60Hz				
Input Frequency Tolerance (%):	±3	±3	±3	±3	±3	±3	±3	±3	±3	±3				
Input Voltage Operating Range Tolerance (%):	-34 / +15	-30 / +20	-30 / +20	-30 / +20	-30 / +20	-30 / +20	-30 / +15	-30 / +15	-30 / +15	-30 / +15				
Output Voltage (VAC):	63 / 89	63 / 89	48 / 63 / 89	63 / 89	48 / 63	63	63 / 89	63 / 89	63 / 89	63 / 89				
Output Voltage Regulation:	-5 / +1	-5 / +1	-5 / +1	-5 / +1	-6 / +1.5	-6 / +1.5	-5 / +1	-5 / +1	-5 / +1	-5 / +1				
Maximum Rated Output Current:	15 Amps	15 Amps	15 / 10 Amps	22 / 15 Amps	15 Amps	22 Amps	8 Amps	10 Amps	15 Amps	18 Amps				
Output Power (VA):	1350	1350	900	1350	900	1408	720	900	1350	1620				
Line Mode Efficiency:					Up to	94%								
Standby Efficiency:					Up to	91%								
Bulk Charger Current (@ 80% Load & Nom Line):	10 Amps	10 Amps	10 Amps	10 Amps	10 Amps	10 Amps	10 Amps	10 Amps	10 Amps	10 Amps				
Battery Voltage (VDC): *XM2-622CE will continue as a 48V model until further notice.	36	36	36	36	36	36*	36	36	36	36				
Mechanical														
Inverter Module:				Fro	nt plug in, hot-swa	ppable inverter mod	dule							
Dimensions H x W x D (in/mm):			7.8 x 15	5 x 10 / 198.1 x 38	x 254, With Hand	ile: 7.8 x 16.7 x 10.	.7 / 198.1 x 424.18	3 x 271.8						
Weight (lb/kg):	60 / 27.2	60 / 27.2	53 / 24.1	67 / 30.5	53 / 24.1	67 / 30.5	48.5 / 22.0	49 / 22.3	60 / 27.2	60.5 / 27.5				
Input Power Connector:					IEC 32	0 / C20								
Battery Connector:					Anderson st	tyle 75 Amps								
Remote Temperature Sensor:				Ring lug	fastens to negative	e terminal on cente	r battery							
Display:				4 line x 20 cha	aracter blue LCD so	creen with soft-key	menu controls							
LRI Connector:					Anderso	n PP30's								
Mounting:			,	Shelf m	ounts inside suitab	ly rated electrical e	nclosure							
Environment														
Operating Temperature:			-40	to 60°C / -40 to 1	40°F (derate by 2°	C / 3.6°F per 1,000	feet above 3,000 t	eet)						
Storage Temperature:					-40 to 60°C / -40 to 140°F (derate by 2°C / 3.6°F per 1,000 feet above 3,000 feet) -40 to 70°C / -40 to 158°F									
Humidity:				0 to 95% non-condensing (relative)										
Conformal Coating:		All printed circuit board assemblies to prevent moisture related failure												
Voltage				All printed circu	0 to 95% non-co		re related failure							
·				All printed circu	0 to 95% non-co		re related failure							
Name Plate Rating (VAC):	127	200-240	200-240	All printed circu	0 to 95% non-co		re related failure	110+127	110-127	110-127				
Name Plate Rating (VAC): Input Window (% of Nominal Input):	127 -34 / +15	200-240	200-240		0 to 95% non-con	s to prevent moistur		110+127	110-127 -30 / +15	110-127 -30 / +15				
				200-240	0 to 95% non-coo	s to prevent moistur	110-127							
Input Window (% of Nominal Input):	-34 / +15	-30 / +20	-30 / +20	200-240	0 to 95% non-cool it board assemblies 230 -30 / +20	230 -30 / +20	110-127 -30 / +15	-30 / +15	-30 / +15	-30 / +15				
Input Window (% of Nominal Input): Input Range (VAC):	-34 / +15 84-146	-30 / +20 161-276	-30 / +20 161-276	200-240 -30 / +20 161-276	0 to 95% non-cor it board assemblies 230 -30 / +20 161-276	230 -30 / +20 161-276	110-127 -30 / +15 84-138	-30 / +15 84-138	-30 / +15 84-138	-30 / +15 84-138				
Input Window (% of Nominal Input): Input Range (VAC): Output Voltage Regulation (%):	-34 / +15 84-146 -5 / +1	-30 / +20 161-276 -5 / +1	-30 / +20 161-276 -5 / +1	200-240 -30 / +20 161-276 -5 / +1	230 -30 / +20 161-276 -6 / +1.5	230 -30 / +20 161-276 -6 / +1.5	110-127 -30 / +15 84-138 -5 / +1	-30 / +15 84-138 -5 / +1	-30 / +15 84-138 -5 / +1	-30 / +15 84-138 -5 / +1				
Input Window (% of Nominal Input): Input Range (VAC): Output Voltage Regulation (%): Load Range:	-34 / +15 84-146 -5 / +1 1-15 Amps	-30 / +20 161-276 -5 / +1 1-15 Amps	-30 / +20 161-276 -5 / +1 1-10 Amps	200-240 -30 / +20 161-276 -5 / +1 1-15 Amps	230 -30 / +20 161-276 -6 / +1.5 1-15 Amps	230 -30 / +20 161-276 -6 / +1.5 1-22 Amps	110-127 -30 / +15 84-138 -5 / +1 1-8 Amps	-30 / +15 84-138 -5 / +1 1-10 Amps	-30 / +15 84-138 -5 / +1 1-15 Amps	-30 / +15 84-138 -5 / +1 1-8 Amps				
Input Window (% of Nominal Input): Input Range (VAC): Output Voltage Regulation (%): Load Range: Output Voltage Min/Max (VAC):	-34 / +15 84-146 -5 / +1 1-15 Amps	-30 / +20 161-276 -5 / +1 1-15 Amps	-30 / +20 161-276 -5 / +1 1-10 Amps	200-240 -30 / +20 161-276 -5 / +1 1-15 Amps	230 -30 / +20 161-276 -6 / +1.5 1-15 Amps	230 -30 / +20 161-276 -6 / +1.5 1-22 Amps	110-127 -30 / +15 84-138 -5 / +1 1-8 Amps	-30 / +15 84-138 -5 / +1 1-10 Amps	-30 / +15 84-138 -5 / +1 1-15 Amps	-30 / +15 84-138 -5 / +1 1-8 Amps				
Input Window (% of Nominal Input): Input Range (VAC): Output Voltage Regulation (%): Load Range: Output Voltage Min/Max (VAC): Safety Compliance	-34 / +15 84-146 -5 / +1 1-15 Amps 84.6 / 90	-30 / +20 161-276 -5 / +1 1-15 Amps 84.6 / 90	-30 / +20 161-276 -5 / +1 1-10 Amps	200-240 -30 / +20 161-276 -5 / +1 1-15 Amps	230 -30 / +20 161-276 -6 / +1.5 1-15 Amps	230 -30 / +20 161-276 -6 / +1.5 1-22 Amps	110-127 -30 / +15 84-138 -5 / +1 1-8 Amps 84.6 / 90	-30 / +15 84-138 -5 / +1 1-10 Amps 84.6 / 90	-30 / +15 84-138 -5 / +1 1-15 Amps 84.6 / 90	-30 / +15 84-138 -5 / +1 1-8 Amps 84.6 / 90				
Input Window (% of Nominal Input): Input Range (VAC): Output Voltage Regulation (%): Load Range: Output Voltage Min/Max (VAC): Safety Compliance UL/CSA 60950-1, UL 1778, CSA 107.3 (NRTL/C):	-34 / +15 84-146 -5 / +1 1-15 Amps 84.6 / 90	-30 / +20 161-276 -5 / +1 1-15 Amps 84.6 / 90	-30 / +20 161-276 -5 / +1 1-10 Amps 84.6 / 90	200-240 -30 / +20 161-276 -5 / +1 1-15 Amps 84.6 / 90	230 -30 / +20 161-276 -6 / +1.5 1-15 Amps 59.2 / 64	230 -30 / +20 161-276 -6 / +1.5 1-22 Amps 59.2 / 64	110-127 -30 / +15 84-138 -5 / +1 1-8 Amps 84.6 / 90	-30 / +15 84-138 -5 / +1 1-10 Amps 84.6 / 90	-30 / +15 84-138 -5 / +1 1-15 Amps 84.6 / 90	-30 / +15 84-138 -5 / +1 1-8 Amps 84.6 / 90				
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Input Window (% of Nominal Input): Input Range (VAC): Output Voltage Regulation (%): Load Range: Output Voltage Min/Max (VAC): Safety Compliance UL/CSA 60950-1, UL 1778, CSA 107.3 (NRTL/C): IEC 60950-1 (CB): IEC 62040-1: Safety Mark:	-34 / +15 84-146 -5 / +1 1-15 Amps 84.6 / 90	-30 / +20 161-276 -5 / +1 1-15 Amps 84.6 / 90	-30 / +20 161-276 -5 / +1 1-10 Amps 84.6 / 90	200-240 -30 / +20 161-276 -5 / +1 1-15 Amps 84.6 / 90	230 -30 / +20 161-276 -6 / +1.5 1-15 Amps 59.2 / 64	230 -30 / +20 161-276 -6 / +1.5 1-22 Amps 59.2 / 64	110-127 -30 / +15 84-138 -5 / +1 1-8 Amps 84.6 / 90	-30 / +15 84-138 -5 / +1 1-10 Amps 84.6 / 90	-30 / +15 84-138 -5 / +1 1-15 Amps 84.6 / 90	-30 / +15 84-138 -5 / +1 1-8 Amps 84.6 / 90				
Input Window (% of Nominal Input): Input Range (VAC): Output Voltage Regulation (%): Load Range: Output Voltage Min/Max (VAC): Safety Compliance UL/CSA 60950-1, UL 1778, CSA 107.3 (NRTL/C): IEC 60950-1 (CB): IEC 62040-1:	-34 / +15 84-146 -5 / +1 1-15 Amps 84.6 / 90	-30 / +20 161-276 -5 / +1 1-15 Amps 84.6 / 90	-30 / +20 161-276 -5 / +1 1-10 Amps 84.6 / 90	200-240 -30 / +20 161-276 -5 / +1 1-15 Amps 84.6 / 90	230 -30 / +20 161-276 -6 / +1.5 1-15 Amps 59.2 / 64	230 -30 / +20 161-276 -6 / +1.5 1-22 Amps 59.2 / 64	110-127 -30 / +15 84-138 -5 / +1 1-8 Amps 84.6 / 90	-30 / +15 84-138 -5 / +1 1-10 Amps 84.6 / 90	-30 / +15 84-138 -5 / +1 1-15 Amps 84.6 / 90	-30 / +15 84-138 -5 / +1 1-8 Amps 84.6 / 90				
Input Window (% of Nominal Input): Input Range (VAC): Output Voltage Regulation (%): Load Range: Output Voltage Min/Max (VAC): Safety Compliance UL/CSA 60950-1, UL 1778, CSA 107.3 (NRTL/C): IEC 60950-1 (CB): IEC 62040-1: Safety Mark: EMC Compliance	-34 / +15 84-146 -5 / +1 1-15 Amps 84.6 / 90 NRTL/C	-30 / +20 161-276 -5 / +1 1-15 Amps 84.6 / 90	-30 / +20 161-276 -5 / +1 1-10 Amps 84.6 / 90	200-240 -30 / +20 161-276 -5 / +1 1-15 Amps 84.6 / 90	230 -30 / +20 161-276 -6 / +1.5 1-15 Amps 59.2 / 64	230 -30 / +20 161-276 -6 / +1.5 1-22 Amps 59.2 / 64	110-127 -30 / +15 84-138 -5 / +1 1-8 Amps 84.6 / 90	-30 / +15 84-138 -5 / +1 1-10 Amps 84.6 / 90 NRTL/C	-30 / +15 84-138 -5 / +1 1-15 Amps 84.6 / 90 V NRTL/C	-30 / +15 84-138 -5 / +1 1-8 Amps 84.6 / 90 V NRTL/C				
Input Window (% of Nominal Input): Input Range (VAC): Output Voltage Regulation (%): Load Range: Output Voltage Min/Max (VAC): Safety Compliance UL/CSA 60950-1, UL 1778, CSA 107.3 (NRTL/C): IEC 60950-1 (CB): IEC 62040-1: Safety Mark: EMC Compliance FCC Part 15 Class A:	-34 / +15 84-146 -5 / +1 1-15 Amps 84.6 / 90 NRTL/C	-30 / +20 161-276 -5 / +1 1-15 Amps 84.6 / 90	-30 / +20 161-276 -5 / +1 1-10 Amps 84.6 / 90	200-240 -30 / +20 161-276 -5 / +1 1-15 Amps 84.6 / 90	0 to 95% non-cool it board assemblies 230 -30 / +20 161-276 -6 / +1.5 1-15 Amps 59.2 / 64	230 -30 / +20 161-276 -6 / +1.5 1-22 Amps 59.2 / 64	110-127 -30 / +15 84-138 -5 / +1 1-8 Amps 84.6 / 90	-30 / +15 84-138 -5 / +1 1-10 Amps 84.6 / 90 NRTL/C	-30 / +15 84-138 -5 / +1 1-15 Amps 84.6 / 90 V NRTL/C	-30 / +15 84-138 -5 / +1 1-8 Amps 84.6 / 90 V NRTL/C				



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