

Power

VMX Series

Versatile Mount Standby Power Supply



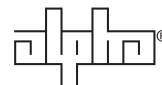
VMX - Wall Mount



VMX - Shelf Mount

- Fifth Generation CableUPS® Uninterruptible Power Supply
- Versatile Mounting Options - Vertical or Shelf
- Line Interactive Ferro Technology (LIFT)
- Wide Input Voltage Range of $\pm 30\%$
- LCD Smart Display for Simple Operator Interface and Flexible Control
- Field Programmable Flash Memory
- Standard Four Output Programmable Interface Module (PIM)
- Programmable Three Stage and Temperature Compensated 10A Battery Charger

Alpha's VMX Series is a cost effective standby power supply designed for the cable industry. The VMX is an ideal solution for cable operators who need a high quality, very reliable uninterruptible power supply. Features of the VMX include vertical or shelf mounting options, status monitoring card slot, smart display, terminal block output connections, selectable output taps, external battery temperature probe, built-in chassis handle and replaceable MOV's.



VMX Series

Specifications

Model:	VMX 615CE		VMX 622CE-48		VMX 915E	
Electrical						
Input Voltage:	230Vrms		230Vrms		230Vrms	
Input Tolerance:	Operating: ±158 to 292Vrms Line Return: ±169 to 281Vrms		Operating: ±158 to 292Vrms Line Return: ±169 to 281Vrms		Operating: ±158 to 292Vrms Line Return: ±169 to 281Vrms	
Nominal Input Current ¹ :	5A		7A		7A	
Input Frequency:	50Hz, ±3Hz		50Hz, ±3Hz		50Hz, ±3Hz	
DC Voltage:	36VDC		48VDC		36VDC	
Low DC Voltage Cutout:	1.75V/Cell		1.75V/Cell		1.75V/Cell	
Output Voltage:	63V rms		48/63V rms (Field Selectable)		63/87V rms (Field Selectable)	
Output Regulation, High TAP ² :	±3%		±3%		±3%	
Output Regulation, Low TAP ² :	±4%		±4%		±4%	
Rated Output Current:	15A rms		22A rms		15A rms	
Output Configuration:	4 Programmable Outputs		4 Programmable Outputs		4 Programmable Outputs	
Output Frequency:	50Hz, ±1Hz (Inverter Operation)		50Hz, ±1Hz (Inverter Operation)		50Hz, ±1Hz (Inverter Operation)	
Waveform:	Quasi Square wave		Quasi Square wave		Quasi Square wave	
Slew Rate:	<200 V/ms, <100 V/ms typical		<200V/ms, <100V/ms typical		<200V/ms, <100V/ms typical	
Crest Factor Ratio (Peak: RMS):	1.3:1 typical		1.3:1 typical		1.3:1 typical	
Auxiliary Output 150W rated UPS:	205-260V (line), 170-265V (Inv)		205-260V (line), 170-265V (Inv)		205-260V (line), 170-265V (Inv)	
Efficiency @ Default TAP Settings						
@100% Load:			91% typical at nominal input			
@75% Load:			90% typical at nominal input			
@50% Load:			88% typical at nominal input			
@25% Load:			80% typical at nominal input			
On Inverter (40 to 100% load):			80% typical			
Overload Protection						
Fold back (Typical @ Nominal Input)						
87V TAP:	N/A		N/A		24A rms	
63V TAP:	33A rms		35A rms		33A rms	
48V TAP:	N/A		45A rms		N/A	
Output Current Into Short (@ Nominal Input)						
87V TAP:	N/A		N/A		<22.5A rms	
63V TAP:	29A rms typical		<30A rms		29A rms typical	
48V TAP:	N/A		<33A rms		N/A	
Overload Current Operation						
0% to 110% Load:			Continuous Operation			
110 to 115% Load:			Continuous Operation with Alarm			
115 to 125% Load:			Shut Down approx. 30min			
125 to 150% Load:			Shut Down approx. 10min			
>150% Load:			Shut Down <10sec			
Battery Charging						
Charge Current ³ :			10A			
Temperature Compensation:			-5mV/Cell/°C (Programmable)			
Constant Current Operation:			High Rate Charge to 90% Capacity			
Constant Voltage Operation:			2.40V/Cell (Programmable)			
Environmental						
Operating Range:			-40 to 55°C at Front Air Inlet of Power Supply			
Humidity:			0 to 95% non-condensing			
Altitude:			0 to 10000ft (3000m) above sea level			
Mechanical						
	Vertical Mount	Shelf Mount	Vertical Mount	Shelf Mount	Vertical Mount	Shelf Mount
Height (in/mm):	11.7/297	8.4/212	11.7/297	8.4/212	11.7/297	8.4/212
Width (in/mm):	20/508	16.5/420	20/508	16.5/420	20/508	16.5/420
Depth (in/mm):	9/229	12.5/317	9/229	12.5/317	9/229	12.5/317
Weight (lbs/kg):	67/30.5	67/30.5	67/30.5	67/30.5	67/30.5	67/30.5
Front Panel Display (LCD):	2 x 20 Character LCD		2 x 20 Character LCD		2 x 20 Character LCD	
Front Panel Indicators (LED):	Output Status & Alarm		Output Status & Alarm		Output Status & Alarm	
Finish:	Dark Blue Powder Coat		Dark Blue Powder Coat		Dark Blue Powder Coat	
Communication						
Status Monitoring ⁴ :			Optional ESM/DSM			
Agency						
Safety Recognition:	EN 50091-1-2, IEC 60950, CB Scheme. CE				EN 50091-1-2, IEC 60950, CB Scheme.	
Emissions:			EN 50091-2, CE Class A			
Notes:						
¹ Batteries fully charged						
² Output regulation at nominal input frequency. Frequency variations will proportionally affect the output voltage (i.e., a 1% reduction in frequency will result in approximately a 1% drop in output voltage)						
³ Varies with input line voltage and output load. ⁴ Status monitoring and embedded transponders are optional.						

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049-255-10-A001 (5/07)

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