

an EnerSys company

# Alpha Micro 1000

## Rugged UPS System



- Compact, integrated UPS system provides clean, uninterruptable backup power
- Wide range Automatic Voltage Regulation without going to batteries extends battery life, even during periods of surge or sag in voltage from utility power
- External communications via RS-232 port or (optional) Ethernet SNMP interface provides local or remote monitoring control
- Independently programmable control and report relays allow tracking and controlling of key functions
- Event and alarm logging with time and date stamping simplifies and accelerates troubleshooting
- A wide operating temperature range of -40 to 74°C (-40 to 165°F)\* is suitable for the most extreme operating environments
- Temperature compensated battery charging protects batteries from over charging at extreme temperatures

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**The Alpha Micro Series provides constant, reliable backup power for Access Control, Security, Public Utility and Telecommunications applications in a compact all-in-one enclosure.**

The Alpha Micro UPS Series provides the same functionality as the Alpha class leading FXM Series, for lower power applications in a single, easy to install cabinet. Optional add-on battery cabinets support applications where longer backup times are required. The system is available in either North American (120Vac/60Hz) or International (230Vac/50Hz) variants.






\*This applies to the UPS module only. Batteries may require a heater mat at lower temperatures. Output power derates after 50°C

# Alpha Micro 1000 UPS and Enclosure

10/2019

Consult your Alpha representative for P/N configurations

Electrical											
<b>120Vac Model</b>											
<b>Battery String Voltage:</b>	48Vdc										
<b>Input:</b>	<b>Nominal Voltage:</b> 120Vac <b>Nominal Frequency:</b> 60Hz <b>Current:</b> (@ nominal voltage, max battery charging current)										
<b>Micro:</b>	14.46A										
<b>MicroXL:</b>	14.92A										
<b>MicroXL3:</b>	15.84A										
<b>Voltage Range:</b>	85 to 152Vac										
<b>Output:</b>	<b>Voltage Regulation:</b> ±10% on line mode, ±2% on inverter mode <b>Power @ 50°C:</b> 1000W/VA										
<b>230Vac Model</b>											
<b>Battery String Voltage:</b>	48Vdc										
<b>Input:</b>	<b>Nominal Voltage:</b> 230Vac <b>Nominal Frequency:</b> 50Hz <b>Current:</b> (@ nominal voltage, max battery charging current)										
<b>Micro:</b>	7.44A										
<b>MicroXL:</b>	7.68A										
<b>MicroXL3:</b>	8.16A										
<b>Voltage Range:</b>	150 to 328Vac										
<b>Output:</b>	<b>Voltage:</b> 230Vac <b>Voltage Regulation:</b> ±10% on line mode, ±2% on inverter mode <b>Power @ 50°C:</b> 1000W/VA										
Communication Interface											
<b>Display:</b>	2 x 20 backlit alpha-numeric LCD										
<b>Ports:</b>	DE-9 Female: Local RS232 Communication RJ45: Remote Communication RJ11: Battery Temperature Compensation										
<b>Indicators:</b>	Green & Red LED's Solid Green: Line Mode Flashing Green: Inverter Mode Flashing Red: Alarm Solid Red: Fault										
<b>Dry Contacts:</b>	Programmable NO/NC (250Vac, 1A)*, 3 user inputs, ATS										
<b>Factory Default:</b>	<table border="0"> <tr> <td>C1: On Battery</td> <td>C7: User Inputs</td> </tr> <tr> <td>C2, C3: Low Battery</td> <td>• S1: Self test</td> </tr> <tr> <td>C4: Load Shed Timer 1</td> <td>• S2: User Input</td> </tr> <tr> <td>C5: Alarm</td> <td>• S3: Shutdown (EPO)</td> </tr> <tr> <td>C6*: 48Vdc @ 500mA</td> <td>C8: ATS</td> </tr> </table>	C1: On Battery	C7: User Inputs	C2, C3: Low Battery	• S1: Self test	C4: Load Shed Timer 1	• S2: User Input	C5: Alarm	• S3: Shutdown (EPO)	C6*: 48Vdc @ 500mA	C8: ATS
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*C6 is factory configurable only											

Mechanical	
	<b>Alpha Micro</b>
<b>Dimensions</b>	<b>mm:</b> 500H x 358W x 294D <b>in:</b> 19.7H x 14.1W x 11.6D
<b>Weight (w/o batteries)</b>	19.7kg (43.4lbs)
	<b>Alpha Micro XL</b>
<b>Dimensions</b>	<b>mm:</b> 776H x 358W x 294D <b>in:</b> 30.6H x 14.1W x 11.6D
<b>Weight (w/o batteries)</b>	19.7kg (49.8lbs)
	<b>Alpha Micro XL3</b>
<b>Dimensions</b>	<b>mm:</b> 1330H x 358W x 294D <b>in:</b> 52.4H x 14.1W x 11.6D
<b>Weight (w/o batteries)</b>	22.6kg (69.2lbs)
Environmental	
<b>Temperature Range:</b>	-40 to 74°C (-40 to 165°F)*
<b>Humidity:</b>	15% to 95% RH non condensing
<b>Audible Noise @25°C:</b>	<45dBa @ 1 meter (39in)
<b>Enclosure Rating:</b>	NEMA 3R
*Derates after 50°C	
Performance <sup>1</sup>	
<b>Typical Output Voltage THD:</b>	<3%
<b>Typical Efficiency:</b>	>98% (resistive load)
<b>Typical Transfer Time:</b>	<5ms
<b>Run Time @25°C**:</b>	4 x 50Ah batteries - 1 hrs 15 mins (Micro XL)
* This applies to the UPS module only. Batteries may require a heater mat at lower temperatures. Output power derates after 50°C	
**Run time on battery power can vary based on loads, temperature and battery. Other battery options are available.	
Agency Compliance	
<b>Electrical Safety:</b>	UL1778, CSA C22.2 No. 107.3; EN62040-1
<b>Marks:</b>	 
<b>EMC:</b>	CFR47, Part 15 Subpart B, Class A; CES-003 Class A; EN62040-2
**CE applies to 230Vac version only	