

Power

Novus Micro Series

Outdoor UPS System



Novus Micro with optional LCD display

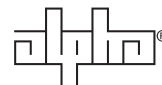
- Clean, uninterruptible backup power ensures your system will remain up and running during power outages
- Wide range Automatic Voltage Regulation without going to batteries extends battery life, even during periods of surge or sag in voltage from utility power.
- External communications via RS-232 port or (optional) SNMP Ethernet interface provides local or remote monitoring control
- Independently programmable control and report relays allow tracking and controlling of key functions¹
- User-friendly LCD display allows “at-a-glance” monitoring and troubleshooting²
- 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)³ is suitable for the most extreme operating environments
- Temperature compensated battery charging protects batteries from over charging at extreme temperatures

The Novus Micro Series provides constant, reliable backup power for Access Control, Security Public Utility and Telecommunications applications in a compact all-in-one enclosure. The Novus Micro UPS Series provides the same functionality as the Novus 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. Each power level is available in either North American (120VAC/60Hz) or International (230VAC/50Hz) variants.

¹ This feature is available on the Novus Micro 1000 Model only.

² This feature is optional for the Novus Micro 300 model.

³ This applies to the UPS module only. Batteries may require a heater mat at lower temperatures. Output power derates after 50°C.



Novus Micro Series

Nominal Specifications

Power Module:	Novus Micro 300		Novus Micro 1000	
	North America	International	North America	International
Nominal voltage:	120VAC	230VAC	120VAC	230VAC
Nominal frequency:	60Hz	50Hz	60Hz	50Hz
Input current:	5.4A	2.8A	14A	7.3A
Output current:	2.5A	1.3A	8.3A	4.3A
Output power at 50°C:	300W/VA	300W/VA	1000W/VA	1000W/VA
Programmable relays:	2	2	1	1
Battery string voltage:	24VDC	24VDC	48VDC	48VDC

General Specifications

Performance

Input voltage range	
120VAC:	85 to 175VAC w/o going to batteries
230VAC:	150 to 328VAC w/o going to batteries
Output voltage	
Regulation:	±10% over full input voltage range
Waveform:	Pure sine wave
Typical efficiency (full resistive load):	>92% (line mode)
Typical output voltage THD:	<3%
Typical transfer time:	<5ms
Audible noise @ 1m:	45dBA

Battery Runtimes*

	Novus Micro	Novus Micro XL	Novus Micro XL3
	2x50Ah Batteries	2x109Ah Batteries	4x109Ah Batteries
300W	2 hrs 12mins	5hrs 22mins	11hrs 45mins
	4x18Ah Batteries	4x50Ah Batteries	4x109Ah Batteries
1000W	26mins	1 hr 27mins	3hrs 36mins

*Battery runtime depends upon the loads, the battery and the operating temperature. Other battery options are available. Contact Alpha for more information and specifications.

Environmental Specifications

Operating temperature:	-40 to 74°C (-40 to 165°F)*
Storage temperature:	-40 to 75°C (-40 to 168°F)
Operating altitude**:	12,000ft/3658m
Operating humidity:	Up to 95%

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

**Derate 2°C per 1000ft (305m) above 4500ft (1370m)

Standard Features

Hot-swappable batteries
 Novus User Software: Windows™-based communication software
 External user input: self test, alarm and EPO (Micro 1000)
 Wall, pole, or pedestal mountable (XL and XL₂)
 Automatic Voltage Regulation (AVR)
 User adjustable charger (3A, 6A, 10A)
 Programmable dry contact relays (NC & NO)
 Reverse battery polarity protection

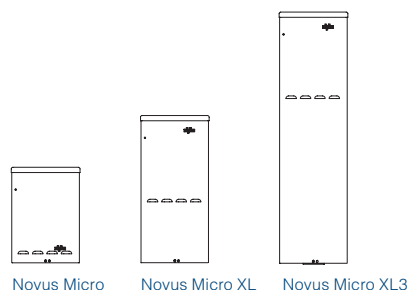
Mechanical Specifications

Novus Micro	Micro	Micro XL	Micro XL3
Width (in/mm):	14.1/358	14.1/358	14.1/358
Height (in/mm):	19.67/499.6	30.57/776.5	52.37/1330.2
Depth (in/mm):	11.56/293.6	11.56/293.6	11.56/293.6
Unit Weight *			
Micro 300 (lb/kg):	44/20	50/23	70/32
Micro 1000 (lb/kg):	47/21	52/24	62/28

*Stated weight does not include batteries.

Agency Compliance

Electrical safety: UL1778, CSA 22.2 No. 107.3, EN50091-1-2, EN60950
 EMI: Level A FCC, CISPR22, EN55022
 Marks: ^cCSA_{US}, CE*
 *CE applies to 230VAC version only



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