

# Power

## Novus Micro and Micro XL

Outdoor UPS System



- Complete conditioning and backup ensures clean, reliable power for revenue generating equipment
- Extended battery runtime can protect equipment for up to 24 hours
- Intelligent boost and buck operation provides stable output during low or high line voltage conditions
- Operating temperature range -40 to 55°C
- Simple flexible installation can be wall or pole mounted

Alpha's Novus Micro series provides critical AC power conditioning and backup power for outdoor communication applications. Intended for powering cellular microcell and picocell stations, the Novus Micro series provides critical AC backup for up to 24 hours. Temperature compensated charging maximizes battery life in harsh, outside plant environments. This integrated design incorporates the UPS and batteries into a single, easy to install and connect cabinet. The Novus Micro's boost and buck modes let it operate in line mode when the line voltage is between 80 to 150VAC while outputting 120VAC  $\pm 10\%$  without using the batteries. The LED display provides status information and is used as a troubleshooting aid. Flexible power, runtime and voltage configurations makes the Novus Micro appropriate for communication applications around the world.

## Novus Micro and Micro XL

### Nominal Specifications

Power Module:	300-24	300-120	300-240
<b>Input</b>			
Input Voltage Nominal (VAC):	120	120	230/240
Input Frequency Nominal (Hz):	60 (±5%)	60 (±5%)	50/60 (±5%) (Auto detect)
Output Frequency Nominal (Hz):	60 (±5%)	60 (±5%)	50/60 (±5%) (Auto detect)
<b>Output Voltage:</b>	24	120	230/240
Line Mode:	±10%	±10%	±10%
Inverter Mode:	±5%	±5%	±5%
Output Power (VA):	300	300	300
Active Output Power (W):	300	300	300
Battery String Voltage:	48	48	48

### General Specifications

#### Output

Output Voltage Waveform:	Pure sine wave	
Typical Efficiency (full resistive load):	>90%	
Typical Output Voltage THD:	>5%	
Battery Runtime*:	<b>50% Load</b>	<b>80% Load</b>
9.0Ah:	2hrs	1hr
18Ah:	5.0hr	2.5hr
35Ah (XL version only):	9hrs	5hrs

#### Environment

Typical Transfer Time:	<8msec
Audible Noise @ 1m:	<40dBA
Operating Temperature**:	-40 to 50°C
Altitude (ft/mm)***:	10000/3050

#### Mechanical

Width (in/mm):	12.9/327.6
Depth (in/mm):	11.4/289.6
Height (in/mm):	18.3/464.8
Height with Extension Box (in/mm):	27.3/693
Weight (Novus Micro Only) (lb/kg):	35/39
Weight with Extension Box (lb/kg):	4.2/1.9
Weight per battery (lb/kg):	
9.0Ah:	5.9/2.7
18Ah:	13.2/6
35Ah:	24.7/11

#### Agency Compliance

UL 1778  
 CSA 22.2 #107.1  
 EN60950  
 NEMA 3R

#### Note:

- \* Battery runtime depends upon the loads, the battery and the operating temperature
- \*\* Capable of operating up to 2hrs in backup mode at 74°C  
 Optional heating pad required for below 0°C operation
- \*\*\* Derate 2°C per 1000ft (305m) above 4500ft (1370m)

#### Applications

The Novus Micro Series can be wall or pole mounted to provide power protection for a wide variety of applications including:

- Telecommunications
- Public Utility Equipment
- Access Control Devices
- Security Systems

#### Standard Features

- Hot swappable batteries
- On Battery Alarm Contact
- Wall or pole mounted
- Intelligent boost operation for brownout and swell protection
- Switchmode 6A charger
- Internal heating pad in UPS module
- Designed to meet UL 1778, CSA 22.2 #107.1 and EN60950

#### Power Conditioning

The Novus Micro Series operates at between 80 and 150VAC without going into battery mode

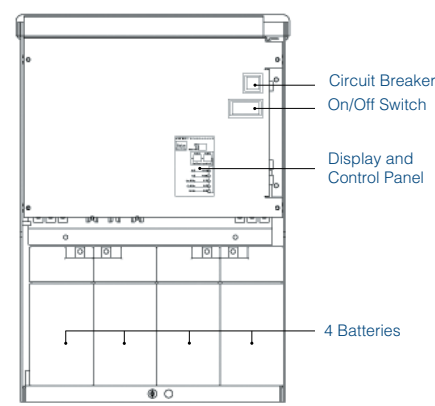
### Novus Micro Series



Novus Micro



Novus Micro XL



Novus Micro  
 Front View (cover removed)

- Circuit Breaker  
On/Off Switch
- Display and  
Control Panel
- 4 Batteries

For contact information visit [www.alpha.com](http://www.alpha.com)

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