

# Power

## Alpha Micro Secure 100

Indoor/Outdoor Uninterruptible Power Supply (UPS)



- Ruggedized 100W UPS in a compact, easy to install package
- Includes an outdoor rated (NEMA 3R) enclosure to protect components from outdoor elements
- Wide operating temperature range  $-40^{\circ}\text{C}$  to  $50^{\circ}\text{C}$  ( $-40^{\circ}\text{F}$  to  $122^{\circ}\text{F}$ )\* makes this UPS suitable for the most extreme climates
- Designed for wall installation or pole installation with optional mounting kit
- Event and alarm logging with time and date stamping simplifies troubleshooting

**The Alpha Micro Secure 100 is a reliable outdoor rated uninterruptible power supply or backup power solution that supports loads up to 100W.** Protected by an outdoor rated (NEMA 3R) enclosure, the Micro Secure operates in the most severe weather conditions. With standard wall mounting or optional pole mounting kit, the installation for the Micro Secure is quick and easy due to the small compact design and light weight. Advanced communications via the RS-232 port or optional Ethernet SNMP interface provides local or remote monitoring and control. Two programmable dry contact relays allow monitoring, controlling and reporting of key functions. The Automatic Voltage Regulator (AVR) with a wide input voltage range, supplies continuous output even during utility voltage surges or sags. The Alpha Micro Secure 100's power management software prevents frequent transfers to battery power, thus reducing battery use and extending battery life.

The Micro Secure 100 includes four 9Ah batteries and is available in either 120VAC or 230 VAC models, each having automatic 60Hz/50Hz frequency sensing.

\*. Temperature rating applies to UPS module



# Alpha Micro Secure 100

## Nominal Specifications

Power Module	Micro Secure	
	North America	International
Nominal voltage:	120VAC	230VAC
Nominal frequency:	60Hz	50Hz
Input current:	2A	1A
Output current:	4.2A @ 24VAC*	4.2A @ 24VAC*
	.83A @ 120VAC*	0.43A @ 230VAC*
Output power:	100W/VA	100W/VA
Battery string voltage:	24VDC	24VDC

\* Total output power 100W

## General Specifications

### Performance

Input voltage range  
 North America (60Hz): 85 to 150VAC  
 International (50Hz): 154 to 323VAC

Output voltage range  
 North America: 108 to 132VAC  
 International: 207 to 253VAC

Voltage waveform: Sine wave

Typical efficiency (full resistive load): >88%

Total harmonic distortion: <3%

Typical transfer time: <5ms

Audible noise @ 1m: <40dBA

## Mechanical Specifications

Unit weight: 11.3kg (25lb) without batteries  
 20.4kg (45lb) with four 9 Ah batteries

Dimensions  
 mm: 381H x 292W x 152D  
 inches: 15H x 11.5W x 6D

## Environmental Specifications

Operating temperature: -40° to 50°C (-40° to 122°F)\*  
 Storage temperature: -40° to 75°C (-40° to 168°F)  
 Operating altitude: 3658m/12,000ft\*\*  
 Operating humidity: Up to 95%

\* Temperature rating applies to UPS module

\*\* Maximum operating temperature reduced by 2°C for every 305 m (1000 ft.) above 1370m (4500 ft.)

\*\*\* Battery run time will vary according to type of load, age of batteries, operating temperature, and other related factors.

## Agency Compliance

Electrical safety: UL1778, CSA 22.2 No 107.1 EN60950  
 Marks: cCSA<sub>US</sub> (120 VAC); CE (230 VAC)  
 EMI: Class A FCC/CISPR, EN50091-1-2,  
 CSA/UL Environmental: NEMA 3R

## Standard Features

- Durable outdoor NEMA 3R enclosure
- Wide range automatic voltage regulation
- 3 Amp battery charger
- Communications via RS-232 port
- Battery reverse polarity protection
- Convection cooling
- Two programmable dry contact relays
- 2 year warranty

## Options

- Pole Mount Kit ( part # 740-751-21)
- Ethernet SNMP interface

## Battery Runtimes (hh:mm)

	Four x 9Ah
100W	2 hrs 15 mins*** Tested at 25°C



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

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