

Power

Alpha Micro Secure 100

Outdoor Uninterruptible Power Supply



Alpha Micro Secure 100

- All weather protection with durable outdoor NEMA 3R rated plastic enclosure
- Wide range Automatic Voltage Regulation (AVR) without switching to batteries protects and extends battery life, even during periods of surge or sag in voltage from utility power
- Local or remote monitoring and control through RS-232 port or optional SNMP Ethernet interface
- A wide operating temperature range of -40 to 50°C (-40 to 122°F) is suitable¹ for the most extreme operating environments
- Tracking and controlling of key functions through independently programmable relays
- Sequentially ordered event and alarm logging with time and date stamping simplifies troubleshooting
- Standard mounting kits provide maximum mounting flexibility to meet demanding space requirements²

The Alpha Micro Secure 100 is a superior outdoor rated uninterruptible power supply/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 Micro Secure's automatic voltage regulation 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 230Vac models, each having automatic 60Hz/50Hz frequency sensing.

1. This applies to the UPS module only. Batteries may require a heater mat at lower temperatures. Output power derates after 50°C.
2. Mounting brackets for pole mount sold separately.



Alpha Micro Secure 100 Outdoor UPS

Consult your Alpha representative for P/N configurations

Electrical

> General

Typical transfer time:3-5ms
Audible noise @ 1M=m:.....<40dBA
Operating temperature range:-40 to 55°C (-40 to 122°F)

> North America

Battery string voltage:24Vdc
Input:
Nominal voltage: 120Vac
Nominal frequency:60Hz
Current:.....2.0A
Voltage range:85 to 150Vac
Voltage waveform:Sine wave
Output current:0.83A @ 120Vac
4.2A @ 24Vac

> International

Battery string voltage:24Vdc
Input:
Nominal voltage:230Vac
Nominal frequency:50Hz
Current:.....1.0A
Voltage range:154 to 323Vac
Output current:
4.2A @ 24Vac:0.43A @ 230Vac

Mechanical

Dimensions:

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

Weight

(with 4 x 9Ah batteries):20.4kg (45lbs)

Performance / Features

Run time*:.....2 hrs 15 mins @ full load
*Using 4 x 9AH batteries @ 25°C.

Agency Compliance

Electrical safety:.....UL1778, CSA 22.2 No. 107.1
Marks:_CCSA_{US}, CE**
EMI:Class A FCC/CISPR, EN50091-1-2,
EN60950
NEMA:3R

**CE applies to 230 Vac version only