

# Micro Secure 100

Outdoor Uninterruptible Power Supply



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 is suitable<sup>1</sup> 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 requirements<sup>2</sup>

The 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.

## Micro Secure 100 Outdoor UPS

Consult your Innovative Energies 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. 1071  
 Marks: ..... <sub>C</sub>CSA <sub>US</sub> + CE\*\*  
 EMI: ..... Class A FCC/CISPR, EN50091-1-2,  
 EN60950  
 NEMA: ..... 3R

\*\*CE applies to 230 Vac version only