

Micro 100

Rugged UPS System



Your Power Solutions Partner

- Integrated, compact rugged UPS featuring all weather protection with durable outdoor NEMA 3R rated plastic enclosure
- Enhanced battery life with wide-range Automatic Voltage Regulation
- Local monitoring and control through USB port or remotely via SNMP Ethernet interface¹
- Independently programmable relays allow monitoring and controlling of key functions
- Simplified troubleshooting through event and alarm logging with time and date stamping
- Maximum mounting flexibility for accommodation of space requirements²
- Magnetic circuit breakers at input and battery for additional protection

The Micro 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 100 operates in the most severe weather conditions. With standard wall mounting or optional pole mounting kit, the installation for the Micro 100 is quick and easy due to the small compact design and light weight. Advanced communications via the USB 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 power even during utility voltage surges or sags, as well as minimizes transfers to battery power, thus reducing battery use and extending battery life.

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

1. SNMP card is optional
2. Mounting bracket for pole mount sold separately





Micro 100 Outdoor UPS System

Consult your Alpha representative for P/N configurations

ELECTRICAL

> North America

Battery string voltage:.....24Vdc

Input:

Nominal voltage: 120Vac
Nominal frequency:60Hz
Current:.....2.0A (@ nominal voltage and max battery charging current)
Voltage range:85 to 150Vac

Output:

Voltage: 120Vac
Current:.....0.83A @ 120Vac

Power at 50°C:..... 100 W/VA Total

> International

Battery string voltage:.....24Vdc

Input:

Nominal voltage:230Vac
Nominal frequency:50Hz
Current:.....1.0A (@ nominal voltage and max battery charging current)
Voltage range: 154 to 323Vac

Output:

Voltage:230Vac
Current:.....0.43A @ 230Vac

Power at 50°C:..... 100 W/VA Total

COMMUNICATION INTERFACE

Ports:USB-B Female: Local Communication

Optional RJ45:Remote Communication

Indicators:Green & Red LED's

Solid Green:Line Mode
Flashing Green:Inverter Mode
Flashing Red:Alarm Solid Red: Fault

Dry Contacts:2 x Programmable NO/NC (250Vac, 1A)

Factory Default:

C1:On Battery
C2:Low Battery

MECHANICAL

Dimensions:

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

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

ENVIRONMENTAL

Temperature*:.....-40 to 50°C (-40 to 122°F)

ROHS Compliance:.....Yes excluding batteries**

Enclosure Rating:NEMA 3R/IP53

PERFORMANCE

Typical output voltage THD: <3% (inverter mode)

Typical efficiency:>96% (resistive load)

Typical transfer time:<5ms

Run time***:

- 20W - 6 hrs
- 50W - 3 hrs 30 min
- 70W - 2 hrs 40 min
- 100W - 2 hrs

AGENCY COMPLIANCE

Electrical safety:UL1778, CSA C22.2 No. 107.3; EN62040-1

Marks:  

EMC:CFR47, Part 15 Subpart B, Class A; CES-003 Class A; EN62040-2

*Requires heater mat at lower temperatures

**Batteries exempt as per Directive 2006/66/EC

***Using 4 x 9AH batteries @ 25°C.

****CE applies to 230Vac version only

Alpha Technologies Ltd.

For more information visit www.alpha.ca

Canada: Burnaby, British Columbia T: 604.436.5900 F: 604.436.1233


United States: Bellingham, Washington T: 360.647.2360 F: 360.671.4936

#048-084-42 Rev G (04/2018)

Alpha Technologies reserves the right to make changes to the products and information contained in this document without notice.

Copyright © 2018 Alpha Technologies. All Rights Reserved. Alpha® is a registered trademark of Alpha Technologies.

member of The Alpha Group™ is a trademark of Alpha Technologies.

member of The  Group™