

# NEUROPOWER

Powering Possibilities. Connecting Futures.



Line Interactive UPS

# Outdoor Series

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Neuropower's Outdoor UPS provides clean and continuous power to critical loads in a rugged environment. Using carefully selected components, the Outdoor UPS is designed to function and support critical loads under temperatures normal UPS is incapable of; regardless of hot or cold.

Furthermore, the Outdoor UPS comes with extra protection against moisture and dust to complement its carefully selected components. It is also equipped with an intelligent slot for remote monitoring of UPS status via SNMP or dry contact. The remote monitoring feature is topped with a battery temperature sensor connector for battery temperature monitoring.



# Outdoor Series 2kVA features

Learn what makes Neuropower's Outdoor UPS the suitable choice to support devices placed in the outdoor's rugged environment.

## 1. Provides continuous power to critical loads during power outage in rugged environment

Unlike what the normal UPS are incapable of, this UPS may still perform its best to ensure power continuity under harsh temperatures.

## 2. Selectable transfer time for AC or generator mode

UPS can be easily configured to meet the desired reliability standards with its optimum transfer time for normal operations or generator operations.

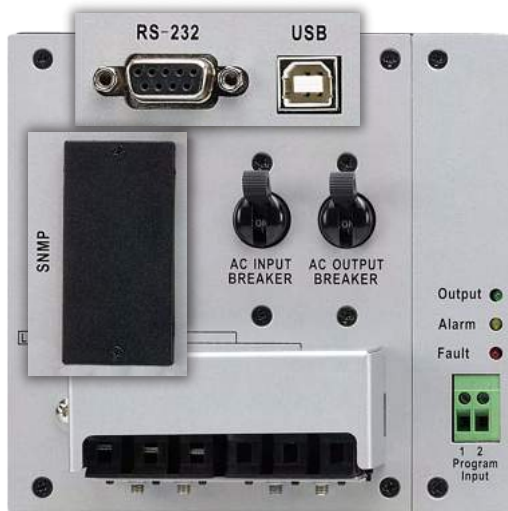
## 3. Built in buck and boost automatic voltage regulator for voltage stabilization

Important for critical applications, this feature helps to reduce voltage fluctuations and instability to avoid equipment failure.

## 4. Wide operating temperature ranging from -40 to 80 degrees celcius

Important for critical outdoor applications, this feature ensures the UPS is capable of providing continuous support in harsh environments and temperatures avoid equipment.





Location of the smart communication ports



Side view (top) and rear view (below) of Outdoor Series

## 6. Built in smart communication port

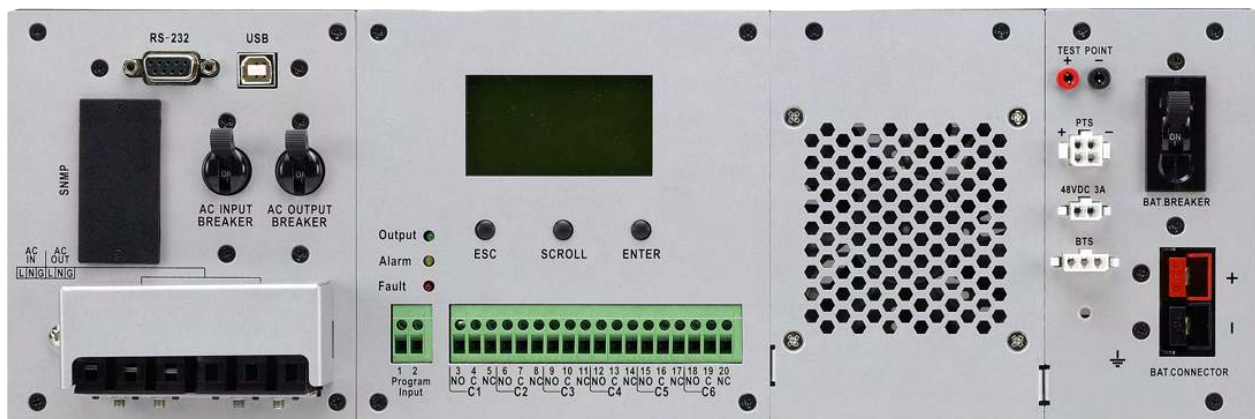
Connect to either USB, RS232 or intelligent slot for complete UPS monitoring and management.

## 7. Built in programmable dry contact signal

An alternative method for a convenient UPS monitoring experience.

## 8. User adjustable charging current

To ensure faster and more optimum charging current for all battery ratings.



Control panel of Outdoor series

## 9. Powered by a battery compensation topology

Optimally charging the batteries to prolong battery life time even in harsh outdoor conditions.

## 10. Functions with a circuit breaker protection on AC input/output and battery input

Comes with easily resettable circuit breakers on the AC input, AC output and battery sections for maximum UPS system protection.

## 11. Comes with 1 x terminal output and adjustable input threshold voltage for wider range of equipment compatibility


This allows the UPS to be versatile and compatible with the ever fluctuating outdoor power grid followed by any outdoor device even with their delicate input power requirements.

# Technical Specification

| Specification         | Model                          |                       | Outdoor 2000                        |             |
|-----------------------|--------------------------------|-----------------------|-------------------------------------|-------------|
|                       |                                | Power Rating (VA / W) |                                     | 2000 / 1600 |
| Input                 | Nominal Voltage (VAC)          |                       | 230                                 |             |
|                       | Acceptable Voltage Range (VAC) |                       | 170-300                             |             |
|                       | Frequency Range (Hz)           |                       | 50 / 60 (Auto Sensing)              |             |
| Output                | Nominal Voltage (VAC)          |                       | 230                                 |             |
|                       | Voltage Regulation (VAC)       |                       | 230 ± 5%                            |             |
|                       | Output Frequency (Hz)          |                       | 50 / 60 ± 0.1%                      |             |
|                       | THD (Batt. Mode)               |                       | < 3% @ Full Resistive Load          |             |
|                       | Efficiency                     | AC Mode               |                                     | 95%         |
|                       |                                | AVR Mode              |                                     | 90%         |
|                       |                                | Battery Mode          |                                     | 87% - 90%   |
|                       | Transfer Time (ms)             | Normal Mode (max.)    |                                     | 12          |
|                       |                                | Generator Mode (max.) |                                     | 25          |
|                       | Waveform                       |                       | Pure Sine Wave                      |             |
| Outlet                |                                | (1) x Terminal Block  |                                     |             |
| Battery               | Nominal DC Voltage (VDC)       |                       | 48                                  |             |
|                       | Low DC Warning Voltage (VDC)   |                       | 46 ± 0.4 @ No Load                  |             |
|                       | Battery Type                   |                       | AGM or Gel                          |             |
|                       | Charging Current (A)           |                       | 2 / 4 / 6 / 8 / 10 (Adjustable)     |             |
| Indicators            | Bypass Mode                    |                       | Green LED on                        |             |
|                       | Battery Mode                   |                       | Green LED flashing                  |             |
|                       | No Output                      |                       | Green LED Off                       |             |
|                       | Warning with Output            |                       | Yellow LED on                       |             |
|                       | Fault without Output           |                       | Red LED on                          |             |
| Power Management      | Communication                  |                       | RS-232/USB and SNMP                 |             |
|                       | Dry Contact Rating (VAC)       |                       | 3A @ 125 or 250                     |             |
| Physical              | Dimension, W x D x H (mm)      |                       | 400 x 240 x 133                     |             |
|                       | Net Weight (kg)                |                       | 12.5                                |             |
|                       | Type of Mechanical Protection  |                       | IP20                                |             |
| Operating Environment | Humidity (Non-Condensing)      |                       | 5% to 95% relative Humidity         |             |
|                       | Operating Temperature (°C)     |                       | -40 to 80                           |             |
|                       | Noise Level @ 1 Meter (dB)     |                       | < 48                                |             |
| Compliance            | EMI Compliance                 |                       | Class A FCC/CISPR [EN50091-2: 1995] |             |
|                       | Surge Protection               |                       | IEEE/ANSI C.62.41 & 2KV, L-N        |             |
| Design Standards      | Safety and EMC                 |                       | CE                                  |             |



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