

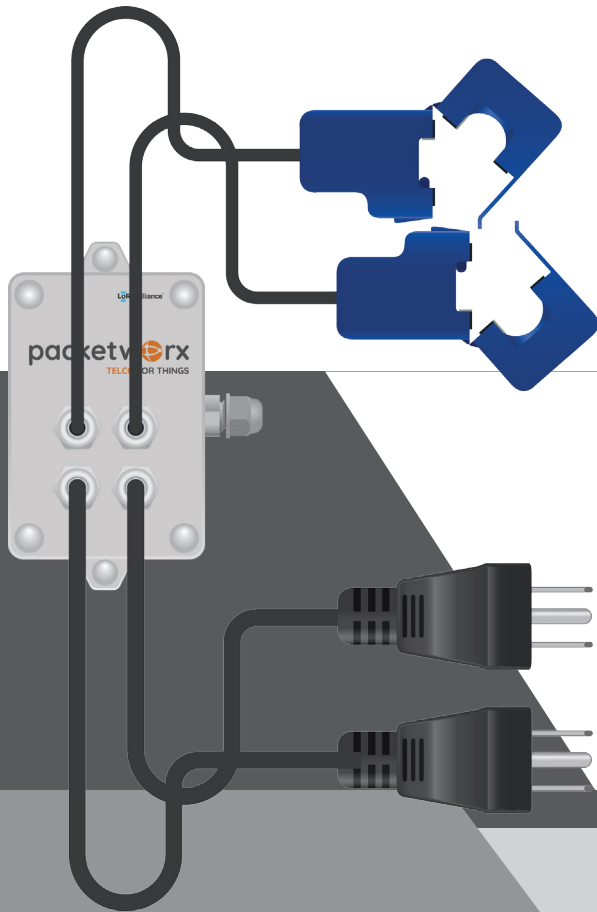
packetUPS

Health Monitoring Device

This device is a dual channel voltage/current sensor with 100A current clamp. It has a built-in temperature sensor to monitor temperature of the device. It monitors power input, power output, and voltage of the UPS.

The device has two types: (1) Using IEC 60320 input connectors (2) Using NEMA 5P-15 power cables for AC Power. The sensor uses the Optocoupler circuit. It is encased in a BAHAR ABS IP67 enclosure. It uses separate fuses for input and output protection. Unit is AC powered with battery backup to detect power interruption and can continuously transmit data.

Sensor data is sent to the cloud/platform using LoRaWAN® at configurable intervals via either CLI or downlink commands, enabling remote reconfiguration if needed.



Features

- Optimized as IoT end-node
- Notification when unit gets disconnected to power source
- Battery backup – LiFePO₄/Li-Ion
- Built-in Temperature Sensor
- Surge Protection
- Over Temperature alarm
- Over Current and Over Voltage Alarm

Applications

- UPS health Monitor
- AC Load Voltage/Current Monitor

Technical Specification

LoRa

Device	S76S
Integrated MCU	STM32L073xZ
Integrated RF IC	SX1276
Frequency	868Mhz
Antenna	Internal
Range	Up to 15k
RF Power	+25dBm

Electricals

Input Voltage Rating	100Vac to 240Vac
Operating Current	50mA (max)
Operating Voltage	3.3V – On-board Electronics
Power Source	220Vac and internal battery
Battery Type	LiFePo ₄
Battery Capacity	200mAh

General Device Specifications

Sensors	Internal Temperature Sensor (<i>thermistor</i>) SCT103 100A 50mA current transformer AC Voltage sensor (<i>optocoupler Type</i>)
Operating Temperature Range	-25°C to +70°C
Operating Voltage	100Vac to 240Vac / DC 3.3V
Operating Current	8mA
Accuracy	±1cm
Protection Grade	IP65

Mechanical

Dimension	116mm x 61mm x 51mm
Mounting	Two mounting holes
Outdoor Installation	N/A

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