wirelessSEISMIC

The WRU Battery Pack

The WRU battery pack is a fully contained smart battery with a choice of capacities to meet the needs of modern 2D, 3D, and passive seismic surveys. The charge circuitry is contained within the pack, so no special chargers are required. Five volts are supplied to the pack for charging. One tri-color LED indicates the charge state — charging, charged, or out of temperature range for charging. The WRU can interrogate 19 available attributes from the battery pack. These battery packs have been specifically designed to yield the maximum number of charge cycles for years of dependable use in the field.

Standard battery packs have sufficient capacity for most conventional surveys. High capacity batteries meet the needs of extended duty cycles, most commonly in passive monitoring projects.

Standard

High capacity

Features

- Pack Protection:
  - » Battery Overcharge
  - » Battery Discharge
  - » Discharge Overcurrent
  - » Charge Overcurrent
  - » Short Circuit
- Charge Management:
  - » Charge Temperature monitoring
  - » 3-phase charging
    - Conditioning
    - Constant voltage
    - Constant current
  - » Tri-state Charge LED indication
  - » Charge Overcurrent
  - » Short Circuit
- Fuel Gauge:
  - » Accurate Battery Fuel gauging
  - » Cell Temperature monitoring

Specifications

- Capacity:
  57.7 Watt hours (standard)
  96.2 Watt hours (high capacity)
- Overcharge voltage:
  4.28 Volts
- Over Discharge voltage:
  2.80 Volts
- Maximum Charge current:
  2.33 Amps

Dimensions

- Standard: 18.85 L x 4.8 W x 4.74 H cm
  (7.42 L x 1.89 W x 1.87 H in.)
- High capacity: 18.85 L x 4.8 W x 6.60 H cm
  (7.42 L x 1.89 W x 2.60 H in.)

Weight

- 0.55 kg (1.21 lbs.) (standard)
- 0.84 kg (1.85 lbs.) (high capacity)

Temperature

- Operating temperature:
  -40° C to +75° C
- Charging temperature:
  -5° C to +45° C

The WRU Battery Charger

The WRU battery charger is specifically designed to provide high density charging with a small physical footprint. The charger includes 10 self-contained charging drawers, each with its own power supply to charge the battery packs. One charging station can charge 80 fully discharged standard batteries in 8 hours and high-capacity batteries in 12 hours from a standard electrical service.

Features

- Flexible mounting configurations
- High density charging
- Quick change design

Specifications

- Input voltage: 85 to 265 Volts
- Maximum Input current: 9.6 Amps
- Input Frequency: 47 to 63 Hz

Dimensions

- 51.59 W x 120.32 H x 59.21 D cm
  (20.31 W x 47.37 H x 21.31 D in.)

Weight

- 31.1 kg (73 lbs.)

Temperature

- Operating temperature:
  -5° C to +45° C

All specifications are typical at 25°C.
Specifications are subject to change without prior notice.

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