

BT-70980A-50

BRENERGY™ SERIES 4850
48V 100Ah Lithium Ion Battery



Features

- Long cycle life
- UN/DOT 38.3 Rating: 5.04kWh
- High power: supports 250A discharge / 100A charge
- Proprietary design inherently suppresses cell fault propagation for maximum safety
- Integral BMS, with a serial-communications interface that is user-selectable for CAN or RS-485 operation; multi-drop network compatible in either mode.
- Cell voltage and cell temperature monitoring with robust cell voltage balancing system
- Overvoltage/undervoltage/overcurrent/overtemperature protection
- Amphenol SurLok Plus™ EMI power connectors with integral safety interlocks
- Light weight, standard 5U package suitable for 19" rack-mounting
- Up to 16 units can be directly paralleled
- Low-maintenance, with features to extend time between recharges while in storage

Typical Applications

- Storage/buffer element for stationary and portable, on-grid/off-grid solar energy systems.
- Storage/buffer element that facilitates "fuel stretching" operation of generators.
- Smart Grid applications that require energy storage.
- Energy buffer for Electric Vehicle (EV) Charge Stations.
- Large UPS/backup power systems
- 48Vdc Telecom energy systems

Technical Specifications

BT Part Number	BT-70980A-50
Dimensions	8.75 in. x 17.31 in. x 24.00 in (222mm x 440mm x 610mm)
Weight	122 lbs (55.5 kg)
Energy	5.04kWh
Nominal Voltage	50.4V
Maximum Voltage	58.8V
Voltage Cutoff	36.0V
Capacity	100Ah
Maximum Charge Rate	100A (1.0C), 0% to 100% SOC
Maximum Discharge Rate	250A (2.5C), 100% to 0% SOC
Cycle Life	>2000 Cycles (0.5C @ 25°C)
Operating Temperature	-40°C to +60°C (-40°F to +140°F)
Recommended Storage Temperature	-40°C to +60°C (-40°F to +140°F)
Connectors	POWER: Two Amphenol SurLok Plus™ EMI connectors with integral safety interlocks COMM: Two RJ-45 jacks contain connections for (user-selectable) CAN or RS-485 serial communications, a comm-enable switch input, and an alarm contact output.
Disposal	Check local regulations (Contains 0% Mercury or Cadmium)

Bren-Tronics is an advanced designer and manufacturer of primary and rechargeable batteries, chargers and complete energy storage systems from watt hours to megawatt hours.

For a complete description of our products refer to Bren-Tronics website at: <http://www.bren-tronics.com>



HEADQUARTERS

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