

BT-70983A-50



TECHNICAL DATASHEET

BRENERGY[™] SERIES F4850, 4U, 5.0kWh LFP Battery

Features

- Lithium Iron Phosphate (LiFePO₄) battery for use in energy storage applications.
- Utilizes cylindrical cells for consistent, balanced performance and maximum cycle life.
- Long cycle life
- Light weight
- Integral BMS, with RS-485 Comm
- · Cell voltage and cell temperature monitoring
- Over-voltage/under-voltage/over-current/over-temperature protection
- Main connection, high current dual-parallel connection terminal strips
- Well suited for stationary or portable energy storage.

Typical Applications

- Storage/buffer element for solar energy systems stationary and portable, on-grid and off-grid.
- 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	
National Stock Number	Pending
BT Part Number	BT-70983A-50
Dimensions	Depth: 18.5 in. (470mm) Width: 18.2 in. (462mm)
	Height: 6.89 in. (175 mm) - 4U Rack Height
Weight	114 lbs (52 kg)
Energy	5.12kWh
Nominal Voltage	51.2V
Maximum Voltage	56.0V (for continuous, uninterrupted operation)
Minimum Voltage	45.0V (for continuous, uninterruped operation)
Capacity	100Ah
Charge	63A (0.63C) Max. Continuous
Discharge	63A (0.63C) Max. Continuous
Cycle Life	>2000 Cycles (0.5C @ 25°C)
Operating Temperature	-10°C to +60°C (-14°F to +140°F)
Recommended Storage Temperature	-40°C to +60°C (-40°F to +140°F)
Connectors	Terminal strips with two M6 screws for each connection (positive and negative)
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



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