ELECTRONICS

PRODUCT SPECIFICATION

500W BATTERY CHARGER FRONT END

The microprocessor controlled Battery Charger includes a serial SPI interface to a host controller to configure the load current and voltage based on the battery technology. The charger allows the host to monitor the input and output voltage, charging current, and charger temperature. Software controlled ideal diode low-loss bypass circuitry allows the battery to be charged directly from the input power bus or provides a direct connection from the battery to the power bus. The charger can be configured for either constant voltage or constant current charging.

GENERAL SPECIFICATIONS

Part Number:
0754B02-001

Electrical:
- Input Voltage: 9-40Vdc
- Output Voltage: 20-30Vdc
- Output Current: 20A max.
- Output Protection:
  - Short Circuit
  - Over Current: Selectable
  - Over Voltage: Selectable
  - Under Voltage: 9V
  - Reverse voltage
  - Thermal shutdown: 110°C
- Efficiency: 90-95%

General Specifications:
- Baseplate temperate range -40°F to 212°F (-40°C to 100°C)
- SPI Interface
- Analog interface
  - Input Voltage
  - Output voltage
  - Load Current

Mechanical:
- Dimensions: 2.8" x 3.7" x 2.0"
- Weight: 8 ounces

Conformal Coated

Reliability:
- MTBF: 1,000,000 Hours