



FLUX POWER BMS

PRODUCT DESCRIPTION:

The Battery Management System (BMS) from Flux Power provides two critical functions for battery systems. One is monitoring parameters and reporting errors to a head-end system. The head-end system can then determine the best action to take to prevent battery failure. The other function is battery balancing. The system will analyze the battery cells during charge and determine which batteries to bleed off current from to prevent overcharging and allow the other batteries to catch up. The battery balancing is done by shunting current off via heat. This method of balancing is best for harsh environments and very large battery strings. It prevents the complexity and problems associated with current shuttling.

GENERAL SPECIFICATIONS:

- Battery voltage reporting
- Battery temperature reporting
- Full system battery balancing
- Each board is autonomous in balancing & can operate independently of other boards
- Up to 4 cell battery balancing per BMS module
- Up to 256 boards can be connected in one communication string
- Isolated CAN-BUS communication channel
- Optically isolated output for optional error shutoff without headend

ELECTRICAL SPECIFICATION:

- Operating Voltage: 3.2 - 18V
- Operating Current: 100mA with shunts off
- Shunt Current: 1A per cell
- Voltage Resolution: 0.01V

BMS MODULE DIMENSIONS:

- Length: 38mm (5.2")
- Width: 132.2mm (1.5")
- Height: 20mm (0.8")

