



EV POWER LFP BATTERY BALANCING MODULE DATASHEET

The cell modules are designed to bolt on top of Thunder Sky and CALB LiFePO4 cells or similar. They can act as standalone cell balancers or be daisy chained together using a one wire interface which is NC when all the cells are within safe operating voltage limits and open circuit otherwise. This can be used to control chargers and loads or to interface with an EV Power master unit.

A cell module regulates the cell to which it is attached when the voltage reaches 3.6V. This is done by shunt regulation up to 800mA. It allows unbalanced cells to even out during charging if a suitable charger is used.

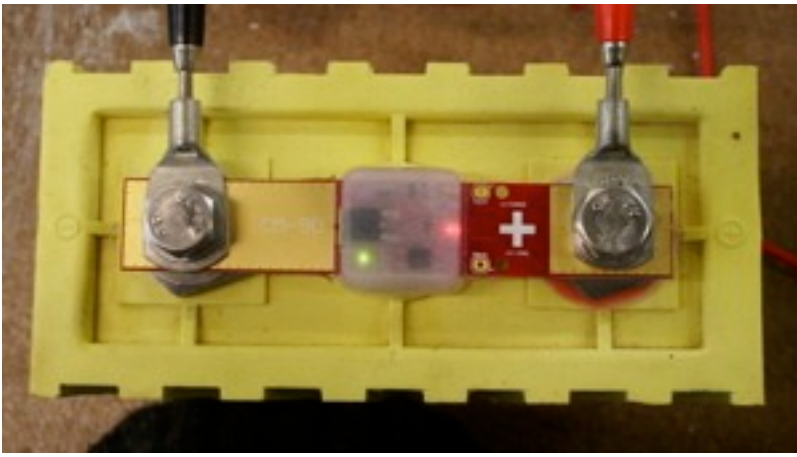
For temperature protection PTC thermal fuses can be placed in the signal line and placed against selected cells. This will additionally open the signal circuit in over temperature conditions.

The system is designed to be failsafe. In order to operate the cell modules require a cell voltage within the recommended limits. An internal fuse protects against overvoltage and cell module failure.

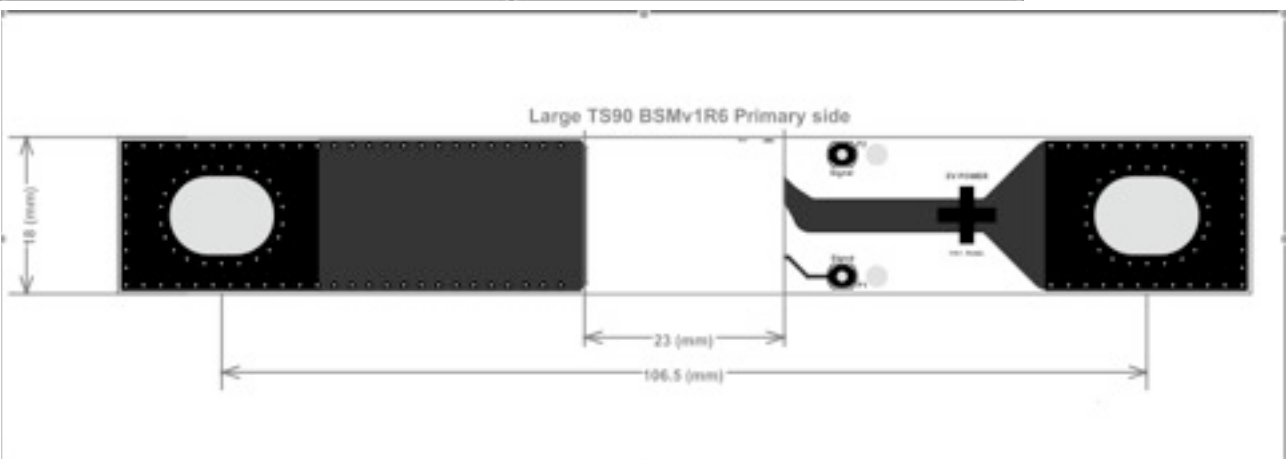
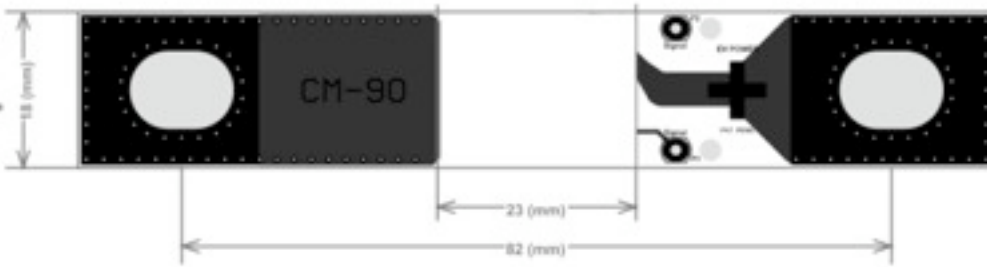
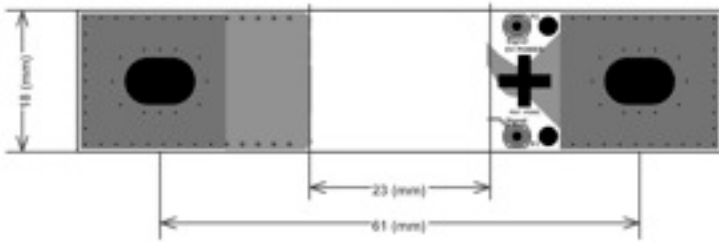
V6 Cell Module Specifications

Nominal Cell Voltage: 3.2-3.4V
Bypass Voltage: 3.60V (Bypass shunt will switch on)
Max. Bypass Current: 800mA
Weight: 10g
Power Consumption: <6mA @ 3.2V
LED Indicators: Green (ON=OK), Red(ON=Bypass active)
Safety Limits: 2.5V < OK < 4.1V
Relay Output: NC when cell voltage is OK. Open circuit with error condition.
Max Signal current: 100mA (non-polarized)
Max height above terminal bolts: zero
Epoxy encapsulated against dust and moisture ingress.
Standard sizes available for TS LFP40/60AHA, LFP90AHA, LFP160AHA

For more information on your specific requirement please contact EV Power Australia.
[Http://www.ev-power.com.au](http://www.ev-power.com.au) Ph: +61 8 9757 2998 WST



CM60 Cell Module



TS90 BATTERY MANAGEMENT SYSTEM CONNECTIONS

