The Genesys Lithium Battery Protection Board allows battery charger modules such as the Genesys Solar Charger Module (GBW-XN-200) to monitor and charge lithium chemistry batteries. Both Lithium Ion and Lithium Polymer battery packs in 2, 3 or 4 cell (in series) configuration are supported.

**FULL Li-Ion and LiPo MONITORING CAPABILITIES**

The Lithium Battery Protection board is a all-in-one solution for battery protection and monitoring during charge and discharge. It is capable of preventing over-temperature, overcharging, undercharging, discharge over-current and short circuit events, preventing damage to batteries or equipment. Automatic balancing of the battery pack’s cells is also supported.

**UNPRECEDEDENT PORTABILITY**

Monitoring of battery state of charge supported by the inbuilt gas gauge functionality of the device enables portability of the battery pack to any battery powered Genesys M2M/IoT enabled device. Or for example, any device may be charged back at base, deployed to the field and exchanged when the Lithium Battery Protection Board detects the battery is running low.

**CHARACTERISTICS OVERVIEW**

**DIMENSIONS**

27mm x 150mm

**FEATURES**

- Under and Over-voltage Protection
- State of Charge Monitoring
- Temperature Monitoring
- Charge Control
- Short Circuit Protection
- Over-current Protection

**SUPPORTED BATTERY PACKS**

2, 3 or 4 cell series configuration of Li-Ion or LiPo battery packs.

Genesys Modular Stack is a technology allowing for the easy interconnection of expansion modules. Genesys Modular Stack compliant modules feature a characteristic pair of board-to-board feedthrough connectors, so that they are infinitely stackable with each module adding new functionality. Note that this module does not directly connect to the GMS stack.
CHARACTERISTICS

USER INTERFACE
- Two Pushbuttons (gas gauge wake-up and pack pack disconnect user operations)

I/O INTERFACES
- Accessory connector for connection to Genesys Solar Charger Module (GBW-XN-200)
- Two Thermocouple Inputs
- Connector to Cell Pack

PHYSICAL
- Dimensions: 27 x 150 mm

SUPPORTED BATTERY PACKS
- Lithium-Ion or Lithium Polymer Batteries
- 2, 3 or 4 Cell Series Configuration

PROTECTION FEATURES
- Under and Over-voltage Protection
- State of Charge Monitoring
- Temperature Monitoring
- Charge Control
- Short Circuit Protection
- Over-current Protection

ENVIRONMENTAL
- Temperature (Operating): -15°C to +55°C
- Temperature (Survival): -55°C to +85°C
- Humidity (Operating): 95% RH at 50°C

*Note: this product does not directly plug on to the Genesys Modular Stack dual 40-pin connector.