

# Ag105

## Li-Ion Battery/Solar Charge Controller



- **Intelligent Charge Controller for Li-Ion and Lithium-Polymer batteries (JEITA compliant)**
- **Wide range of Li-Ion battery capacities**  
0.2Ah to 12.5Ah
- **Ideal for charging from Solar Panels or fixed DC source**
- **Selectable Charge Profiles**
- **Programmable Maximum Power Point Tracking (MPPT)**
- **Wide input supply range**  
11Vdc to 36Vdc
- **I<sup>2</sup>C Control & Monitoring**
- **Battery Status monitoring**
- **Thermal protection and Load Disable**
- **Simple integration**
- **Small DIL footprint**  
51mm(L) x 30mm(W) x 16mm(H)

The Ag105 module is a highly-featured, cost effective battery charge controller designed specifically to charge protected Lithium-Ion (Li-Ion) and Lithium Polymer (Li-Po) batteries from a fixed DC source or Solar Panel feed.

The Ag105 is designed to help maximise the working life of a connected Li-Ion battery, by implementing an intelligent and safe charging profile combined with the ability to monitor battery condition. The module provides pre-charge, Constant Current and Constant Voltage charge profiles.

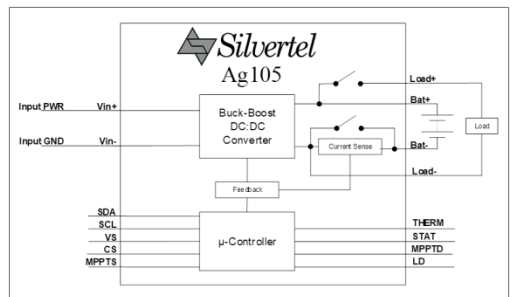
With in-built features such as, Programmable Maximum Power Point Tracking (MPPT) the module maximises the available power, allowing custom solar panels to be used with the controller module.

The 'Stat' output reports the condition of the battery under charge to prevent permanent battery damage. Alternatively this, along with other parameters, can be read via on-board I<sup>2</sup>C.

The module accepts a wide source input voltage range, from 11Vdc to 36Vdc to charge Li-Ion or Li-Po batteries from 0.2Ah to 12.5Ah capacity.

The Ag105 has been designed as a drop-in solution requiring minimal additional components, making implementation straightforward and thereby accelerating development times.

Its low cost, small footprint, high efficiency and safe charge features make it an extremely useful and versatile charge controller.



**Ag105 - Block Diagram**