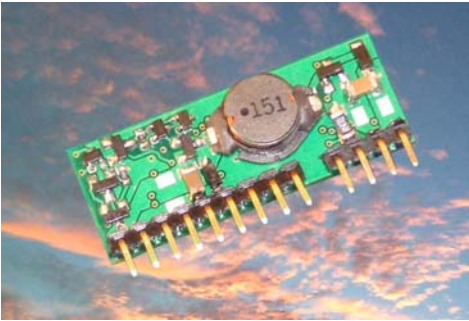


Ag104

V1.0
November15

Miniature Battery Charger Module for low power and ambient light

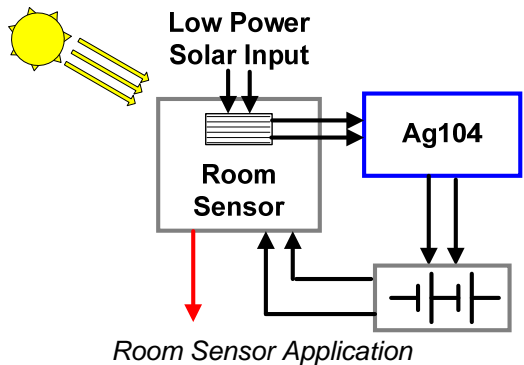


- **Designed for use with low power solar cells**
- **Max Power Point Tracking (MPPT)**
- **Charge batteries & power small devices using ambient light**
- **Wide input supply range**
1.8V - 25V DC
- **Selectable charge currents**
From 70mA to 500mA
- **Small SIL footprint**
37mm(L) x 14mm(H) x8mm(W)
- **Operating temperature 0°C to 70°C°**
- **Simple integration**

The Ag104 is an intelligent, programmable, cost effective battery charge controller. Ag104 is designed specifically to harvest the energy available in low and ambient light conditions with low power solar cells to charge small batteries or Supercaps. It provides a comprehensive low power solution, designed to harvest and maximise the energy available, for charging a connected battery. Efficiency is optimised through the use of Maximum Power Point Tracking (MPPT) and programmable charging profiles.

Intelligent charging monitors battery status, providing charging current or no charge, as necessary. Ag104 incorporates a Buck-Boost topology DC-DC converter meaning it can accept a wide 1.8V to 25V input DC voltage range for added versatility, and can be used with a range of solar cells and battery capacities, dependent on the charge times expected or required.

It provides a drop in solution requiring minimal additional components for charging small batteries from solar cells.



It is low cost and high efficiency in a very small footprint while its intelligent charging features make it extremely versatile for use in modern Eco-friendly solar cell powered, battery backed electronics installations, such as room sensors, lighting controls, alarm systems and access control.