Ag102

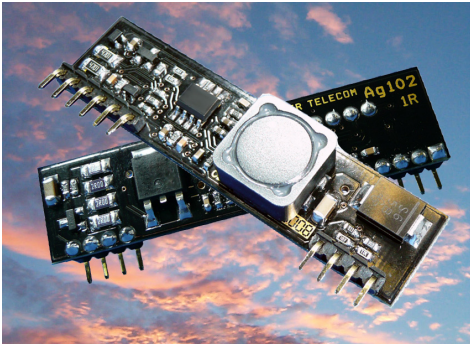## Sealed Lead Acid Battery charger Module

- **Maximises Specified Battery Life**
- **Battery Reversal Protection**
- **Reduces Power Consumption**
- **Very Wide DC Input Range 9V to 36V**
- **High Efficiency DC-DC converter**
- **Intelligent 'Top-up' Float Charge**
- **Programmable Charge Current**
- **Charge Condition Indicator outputs**
- **Temperature Compensation**
- **Overload & short-circuit protection**
- **Simple integration**

The Ag102 is an intelligent, cost effective sealed lead acid (SLA) battery charging module. It has been designed to optimise the charge characteristics of standard, 12V sealed lead acid batteries between 1.2Ah and 7Ah capacity. Using various intelligent charging techniques the Ag102 technology will maximise the manufacturers specified battery lifetime.

The Ag102 has a very wide input range of 9V to 36V DC. A 24V AC input would need the addition of just 2 external components. This gives extensive flexibility and means the

system and charger would require just one, lower cost, power supply. Used in conjunction with Silver Telecom Power over Ethernet (PoE) modules, the Ag102 can also charge SLA batteries from an Ethernet cable.

The charging current can be programmed to match the battery capacity via external inputs. This minimises the risk of over or under charging. Battery terminal voltage is continuously monitored. Once full capacity is reached, charging stops and to prevent over charge, float charge 'top-ups' are applied only when necessary. This significantly reduces the loss of battery life caused by continuous float charging.

With the addition of a low-cost thermistor, charge voltages can be temperature compensated. This further optimises the charge cycle, helping to preserve battery life.

The Ag102 provides comprehensive charge condition indicators which can be used to monitor all battery charge and fault conditions.

With its high efficiency and intelligent charging techniques, the Ag102 is an ideal solution for reducing power consumption and maximising SLA battery life.

Note: The device specifications are based on preliminary data and are subject to change. Contact Silver Telecom Representative for up-to-date information.