

Solar Charge Controller

Model No: SCC-05

SCC-05 is a ARM microcontroller based solar charge controller. SCC-05 is especially designed for remote telemetry sites. It enables a data logger to monitor solar and battery characteristics.



Features:

- SDI-12 port to interface the charge controller to a data logger
- Real Time battery Voltage, charging current, load current and panel voltage, battery temperature can be read from the SDI-12 interface
- Disconnects load automatically if battery voltage goes below 11.6 V or preset value
- Integrated temperature compensation
- Battery type can be programmed using the SDI-12 port
- Three stage battery charging which ensures a long battery life.
- Battery State-of-Charge and fault display with LED
- Charging current for battery can be changed remotely from web interface.

Specification:

- Nominal voltage: 12V at 25 C
- Boost voltage: 14.2 V at 25 C
- Equalization voltage: 14.4V at 25 C
- Float voltage: 13.8V at 25 C
- Regulator preciseness: <1%
- Max charge current: 5A
- Load disconnect voltage: 11.6 V
- Load reconnect voltage: 12.6 V
- Self Consumption: 5mA
- Temperature compensation: $-4\text{mV/cell} * K$
- Grounding: Negative grounding
- Operating temperature range: -40 to +60C

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