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## Data Sheet: SP-CC-155 Charge Controller

### Product Overview

The SPK SP-CC-155 range of solar system charge controllers are designed for low cost and industrial applications where a robust and solid state solution is required. The SPK SP-CC-155 will control a solar system up to a maximum array current of 15A and a maximum load current of 5A. The units are available in positive earth or negative earth polarities and suitable for 12, 24 and 48V systems. The polarity and system voltage are pre-configured during manufacture and cannot be changed in the field.



### Product Features

- System Voltages: 12V, 24V, 48V;
- System Configuration: Positive or Negative Earth (PE or NE);
- Battery Types: vented or VRLA cells;
- System Regulation: Series regulation (i.e. connects the array to the battery for charging);
- Single array input with a maximum 15A charging current;
- Boost and float regulation points are factory set to customer values;
- Single load output with a maximum 5A load current;
- Temperature compensation by a sensor mounted on the controller PCB;
- Charging LED (green) illuminates to indicate charging;
- High Volts (HV) LED (red) illuminates to indicate the HV alarm condition;
- Low Volts (LV) LED (yellow) illuminates to indicate the LV alarm condition;
- Load Cut (LC) LED (red) illuminates to indicate the LC alarm condition;
- HV, LV and LC conditions operate a common alarm relay with changeover contacts available to the user;
- HV, LV, and LC alarms are factory set;
- Disable link allows the user to disconnect the Load and the Array;
- Solid state array switching of Array and Load current;
- 20A battery and 10A load fuses for over current protection;
- Metal oxide varistors to give induced lightning protection;
- IP65 Polycarbonate enclosure (H x W x D) 175 x 125 x 75 mm with a clear lid;
- Four glands are provided for battery, array, load and alarm cables;
- Battery, array and load connections are by PCB terminals suitable for 6 mm<sup>2</sup> wire;
- Alarm connections are by PCB terminals suitable for CSA 2.5 mm<sup>2</sup> wire;
- The unit will operate in ambient temperatures from -10°C to +55°C (it should not be mounted in direct sunlight);
- The PCB Assembly is sprayed with a coating to protect against humidity and environmental attack.

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