

# SOLAR PV CHARGE CONTROLLER



The term "charge controller" refers either to a stand-alone device or a control circuitry integrated within a battery pack, battery-powered solar device or a battery recharger.

Solar Charger Controller regulates the rate at which electric current is added to or drawn from batteries. It prevents overcharging, over and variable voltage which if not controlled can reduce battery performance or life span and may pose a safety risk. It also prevents complete drainage ("deep discharge") of a battery. It also facilitates controlled discharge of the battery thereby maintaining its longevity.

## RANGE AVAILABLE 10A - 60A (12V - 360V)

A Solar charge controller is used to control the charging current drawn from the solar arrays to the batteries. Su-Kam's Solar Charge Controller is equipped with Micro controller and Digital Signal Processing (DSP) technology and is fully protected against transient over voltage and reverse current flow.

## TECHNICAL SPECIFICATIONS

### Electrical: SOLAR CHARGE CONTROLLER

Model	SCC5A - 45A/60A							
Type	Series regulator common negative							
Technology	Micro controller based control using MOSFET / IGBT							
System Voltage (configurable)	12 Volt	24 Volt	36 Volt	48 Volt	96 Volt	180 Volt	240 Volt	360 Volt
Charging current	10A - 15A, 20A, 30A, 40A - 45A, 60A							
Absorption period	Held battery voltage at bulk setting for a cumulative period of 1 hour							
Bulk voltage	14.2V each Battery (Factory settable)							
Float voltage	13.6V $\pm$ 0.2V							
Equalizing voltage	+1V	+2V	+3V	+4V	+8V	+15V	+20V	+30V
Temperature comp. coefficient	-3mV to -5mV/ $^{\circ}$ C/cell (25 $^{\circ}$ C Reference)							
Temperature comp. set points	Bulk, Absorption, Float and Equalization mode							
Data Monitoring	Through RS-232							

### Protection

Polarity Reversal Protection	Integrated
Overload Protection	Integrated
Overcharge Protection	Integrated
Short Circuit Protection	Integrated

### General:

*Operating Ambient Temperature	0 $^{\circ}$ C to 40 $^{\circ}$ C
Storage Temperature	0 $^{\circ}$ C to 55 $^{\circ}$ C
Relative Humidity	0-95% (NC)
Dimensions (WxDxH) in mm	227 x 140 x 75
Weight (approx.)	1.1 Kg upto 15A / 1.4 Kg for above 20A Models

Note: \* 1. For operating in minus degree temp. i.e. lower than equal to -25 $^{\circ}$ C Charge controllers are available on demand.  
2. Specifications are subject to change without prior notice.

### CAN CHARGE ANY BATTERY TYPE AVAILABLE....



LA Battery

SMF Battery

Tubular Battery

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### Certifications

ISO 9001:2008 ISO 14001:2004

