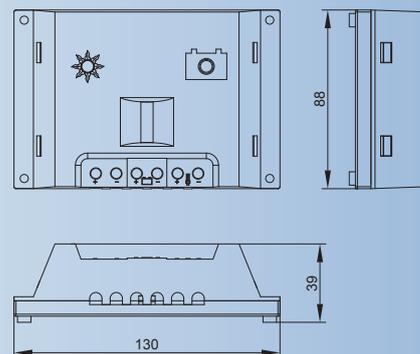




## Solar Charge Controller



# Steca Solsum

5.0c, 6.6c, 8.0c, 8.8c, 10.10c

Power class

5 A - 10 A



One of Steca's bestsellers are the photovoltaic controllers of the Solsum C series which are used in small solar home systems with a 5 to 10 Amp solar charging and load current capacity (up to 240 Wp). The Solsum C series was launched in 2004 as a redesign of the Solsum X series. The C series advantages are large connection terminals, fully covered PCB and a easy to understand display. The electronic board uses automatized through hole technology for easy local maintenance.

### Certificates

- Approved for Worldbank funded projects in Indonesia by TÜV
- Listed for Worldbank funded projects in Bangladesh, China, Laos, Nepal, Sri Lanka, Uganda
- Compliant to the use in tropical areas (DIN IEC 68 part 2-30)
- Conform to European Standards (CE)
- Manufactured in an ISO 9001 facility



Solar Charge Controller	Solsum 5.0c	Solsum 8.0c	Solsum 6.6c	Solsum 8.8c	Solsum 10.10c
System voltage	12 V (24 V)				
Max. module input short circuit current	5 A	8 A	6 A	8 A	10 A
Max. load output current	5 A	8 A	6 A	8 A	10 A
LVD	-	-	✓	✓	✓
Max. self consumption	4 mA				
End of charge voltage (float)	13.7 V (27.4 V)				
Boost charge voltage; 2 h	14.4 V (28.8 V)				
Equalisation charge	-				
Reconnection setpoint (LVR)	without LVR		12.6 V (25.2 V)		
Deep discharge protection (LVD)	without LVD		11.1 V (22.2 V)		
Ambient temperature allowed	-25 °C...+50 °C				
Terminal size (fine / single wire)	2.5 mm <sup>2</sup> / 4 mm <sup>2</sup>				
Enclosure protection class	IP 22				
Weight	165 g				
Dimensions l x w x h	130 x 88 x 39 mm				

Technical data at 25 °C / 77 °F

### Features

- Voltage regulation
- PWM shunt battery charging
- Boost charging
- Float charging
- Automatic load reconnection
- Automatic selection of voltage (12 V / 24 V)
- Temperature compensation
- Positive grounding
- (or) Negative grounding on one terminal

### Electronic Protections

- High voltage disconnect (HVD)
- Low voltage disconnect (LVD), not 5.0c & 8.0c
- Reverse polarity of solar modules
- Reverse polarity of load & battery
- Short circuit of solar modules
- Short circuit of load
- Over temperature
- Over voltage
- Lightning protection by varistor
- Low electronic interference (EMC)
- Open circuit battery
- Reverse current at night

### Displays

#### 2 LEDs

- (1) battery charging LED
  - by solar module = green LED in "sun" symbol
- (2) battery voltage LED
  - end of charge voltage = green LED
  - battery voltage level = red & yellow & green LED
  - load disconnect prewarning = fast flashing red LED
  - deep discharge protection = slowly flashing red LED