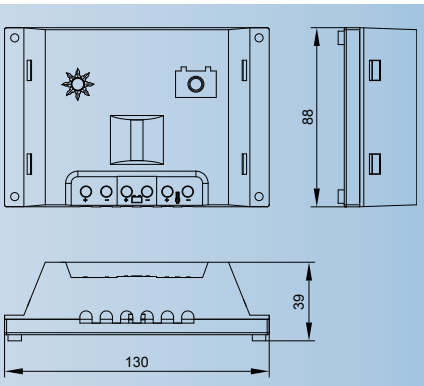
Solar Charge Controller



Steca Solsum

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

Power class **5 A - 10 A**

0 A 50 A 100 A 150 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 automized 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

SHS COM RV 240 W

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	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 mm² / 4 mm²				
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

two 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