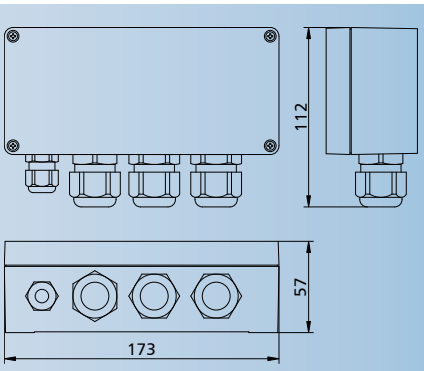
Solar Charge Controller



Steca Solarix ST

ST 10B10, ST 10L10, ST 20B20, ST 20L20

Power class 10 A - 20 A

0 A 50 A 100 A 150 A

This charge controller is based on Steca's SOLARIX controllers in a IP 65 splash water proof enclosure. The Solarix ST controller operates in harsh environments like salt, moisture and dust. The 10 Amp version comes with a plastic IP 65 enclosure, the 20 Amp version in an aluminium body.

Certificates

- compliant to the use in tropical areas (DIN IEC 68 part 2-30)
- conform to European Standards (CE)
- Made in Germany
- UL listing in 1999

SHS COM RV MARINE 720 W SOC

Charge controller without LCD-Display	ST 10B10	ST 10L10
with LCD-Display	ST 20B20	ST 20L20
system voltage	12 V / (24 V)	
max. module input short circuit current	10 A	20 A
max. load output current	10 A	20 A
max. self consumption	7 mA	
end of charge voltage (float)	13.7 V / (27.4 V)	
boost charge voltage	14.4 V / (28.8 V)	
equalisation charge (deactivated for gel accu)	14.7 V / (29.4 V)	
reconnection setpoint (SOC / LVR)	> 50 % SOC / 12.6 V (25.2 V)	
deep discharge protection (SOC / LVD)	< 30 % SOC / 11.1 V (22.2 V)	
ambient temperature allowed	-25 °C...+50 °C	
terminal size (fine / single wire)	4 mm² / 6 mm²	10 mm² / 16 mm²
enclosure protection class	IP 65	
weight	400 g	620 g
dimensions l x w x h	173 x 57 x 112 mm	

Technical data at 25 °C / 77 °F

Features

- PWM shunt battery charging
- state of charge (SOC) battery regulation
- boost charging
- equalising charge
- float charging
- automatic load reconnection
- automatic selection of voltage (12V / 24V)
- temperature compensation
- positive grounding
- (or) negative grounding on one terminal
- field adjustable parameters by jumpers on PCB
- option: operates load only by night

Electronic Protections

- high voltage disconnect (HVD)
- low voltage disconnect (LVD)
- dept of discharge disconnection (DOD)
- 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) PV system LED
(2) state of charge LED
- optional LCD showing SOC, Vbat, all currents, alarms