



Steca PR Nightlight

PR 0606N, PR1010N

The Steca PR night light controllers are designed for operating automatic night lighting systems and are suitable for solar systems of up to 300 Wp module output.

This controller is thus especially suitable for streetlights, bus stops, advertising lighting and other similar applications. The charge controller determines the actual solar time via the solar module. This integrated clock can be used to define how long after sunset, or before sunrise, the light is to be switched on or off.

Features

- PWM shunt battery charging
- State of charge (SOC) battery regulation
- Boost-, Equalising-, Float charging
- Automatic load reconnection
- Automatic selection of voltage (12 V / 24 V)
- Temperature compensation
- Positive grounding (or) Negative grounding on one terminal
- Field adjustable parameters by two buttons
- Factory adjustable

Protection functionality

- High voltage disconnect (HVD)
- Low voltage disconnect (LVD)
- Dept of discharge disconnection (DOD)
- Reverse polarity of solar modules, load and battery
- Electronic fuse
- Short circuit protection
- Lightning protection by varistor
- Reverse current at night

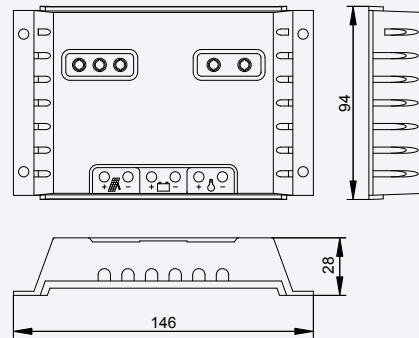
Displays

- 3 LEDs
 - LED 1: adjustment mode
 - LED 2: PV system
 - LED 3: state of charge

Certificates

- Approved for Worldbank funded projects in Laos
- Conform to European Standards (CE)
- Made in Germany
- Manufactured in a DIN EN ISO 9001:2000 and DIN EN ISO 14001 facility

Technical data

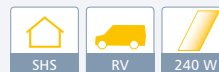


Street-light Solar Charge Controller	PR 0606N	PR 1010N
System voltage	12 V (24 V)	
Max. module input short circuit current	6 A	10 A
Max. load output current	6 A	10 A
Max. own consumption	6 mA	
End of charge voltage (float)	13.7 V (27.4 V)	
Boost charge voltage; 2 h	14.4 V (28.8 V)	
Equalisation charge programmable (deactivated for gel accu); 2 h	14.7 V oder 15.0 V (29.4 V)	
Reconnection setpoint (SOC/LVR)	> 50 % / 12.6 V (25.2 V)	
Deep discharge protection (SOC/LVD)	< 30 % / 11.1 V (22.2 V)	
Ambient temperature allowed	-25 °C ... +50 °C	
Terminal size (fine/single wire)	6 mm ² / 10 mm ²	
Enclosure protection class	IP 22	
Weight	120 g	
Dimensions l x w x h	146 x 94 x 28 mm	
Night-light function	19 h - 3 h	
Morning-light function	23 h - 7 h	
Motion detector Steca PA IRS 1008/180		
Battery nominal voltage	12 V	
Reach/detection area	7 m/180°	
Max. load output current	5 A	
Own consumption	> 2 mA	
Turn on time	1 - 5 Min.	
Enclosure protection class	IP 65	

Technical data at 25 °C / 77 °F

Power class

6 A - 10 A



Steca PA IRS 1008/180

motion detector



The Steca PA IRS 1008/180 motion detector is connected to the load output of the night light charge controller. This supplies power to the light, which is then turned on for a few minutes when some movement is detected. The Steca IRS 1008/180 stands out, through its extremely low own consumption, and is therefore optimal for use in solar power systems.