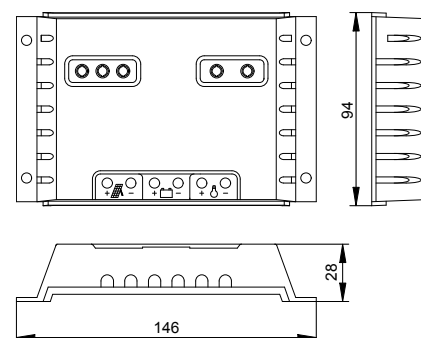




Solar Charge Controller



Power class

6 A - 10 A



Steca PR Night

PR 0606N, PR 1010N

The Steca PR Night is a solar lighting controller (up to 300 Wp) for automatic lighting control in various applications such as PV powered streetlights, bus shelters or billboard lighting. The controller detects day and night using the PV array. An entirely new feature is the integrated clock that sets itself automatically based on the levels of brightness detected during a 24 hour day. There are two major options:

- the light switches on after sunset
- the light switches on before sunrise

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



| 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. self consumption | 6 mA | |
| end of charge voltage (float) | 13.7 V / (27.4 V) | |
| boost charge voltage (time limited 2 h) | 14.4 V / (28.8 V) | |
| equalisation charge programmable (deactivated for gel accu) | 14.7 V or 15.0 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) | 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 | |

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 (12 V / 24 V)
- temperature compensation
- positive grounding
- (or) negative grounding on one terminal
- field adjustable parameters by two buttons
- factory adjustable

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
- electronic fuse
- 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

three LEDs

- (1) adjustment mode LED
- (2) PV system LED
- (3) state of charge LED