

Steca PR Night

PR 0606N, PR1010N



The Steca PR Night is a solar lighting controller (up to 300 WP) for automatic lighting control in various applications such as PV powered streetlight, 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.

Features

- PWM shunt battery charging
- state of charge (SOC) battery regulation
- Boost-, Equalising-, 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 two buttons *Factory adjustable

Electronic Protections

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

Displays

3 LEDs

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

Street-light solar charge controller	PR 0606N	PR 1010N
System voltage	12V (24 V)	
Max. module input short circuit current	6 A	6 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; 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 / 10 mm	
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	
Self consumption	> 2 mA	
Turn on time	1 - 5 Min	
Enclosure protection class	IP 65	

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