

Intelligent Solar System Controller

designed for operating night light systems and it suitable for solar systems of up to 900 Wp module output. This controller is thus especially suitable for streetlights, bus stops, advertising lighting and other similar applications. The controller determines the actual solar time via the solar module; the integrated clock can be used to define how long after sunset, or before sunrise, the light is to be switched on or off.



PRODUCT NAME
ELECTRISOL-SA

MODEL NUMBER
ELE-PV-3030

Application: Street Light, Solar Residential System, Telecommunication, Recreational Vehicles, Marine Boat

www.electrilabs.co.za

Product Features

- Microcontroller digital accuracy
- Voltage series regulation
- Automatic detection of the voltage
- PWM control
- State of Charge (SoC) advanced technology
- Temperature compensation
- Common positive grounding
- Night light function with built-in time clock, on/off timer control
- Two timer schedule programmable

Electronic Protection Functions

- Overcharge protection
- Deep discharge protection
- Reverse polarity protection of load, module and battery
- Automatic electronic fuse
- Short circuit protection of load and module
- Overvoltage protection at module input
- Open circuit protection without battery
- Reverse current protection at night
- Overload protection
- Battery overvoltage shutdown

Displays

- Graphical LCD Display shows operating states - for operation state of charge, fault messages



Operation

- Manual and automatic load switch

Certificates

- CE compliant according EN61000-6-1 and EN61000-3
- UL 1741 compliant
- RoHS compliant
- Manufactured according to ISO 9001 and ISO 14001

MODEL NUMBER

3030

Operating Performance

System Voltage 12 V (24 V)
Typical Idle Consumption < 20 mA

DC input side

Open circuit voltage solar module < 47 V
Max. input current 30 A

DC output side

Max. load current 30 A
End of charge voltage 13.4 V ... 14.2V (26.9 V ... 28.4 V)
Boost charge voltage 14.4 V (28.8 V)
Reconnection voltage (LVR) 12.5 V (25 V)
Deep discharge protection (LVD) 11 V 11.5 V (22 V 23 V)

Operating Conditions

Ambient Temperature -20°C +50°C

Fitting and construction

Terminal (fine/single wire) 16 mm² / 25 mm² - AWG 6 / 4
Degree of protection IP 32
Dimension (X x Y x Z) 160 x 97 x 44 mm
Weight 350 g

Technical data at 25°C/77°F

