

### Intelligent Solar System Controller

best seller of one of the most used SHS controller. With high power up to 30A at automatically recognized 12 V or 24 V it fits to a system with 900 Wp. The circuit board is completely electronically protected and a large display informs the users about all operating modes with the aid of symbols including voltage, current and state of charge. Large terminals guarantee a simple connection of solar panel, battery and load.

[www.electrilabs.co.za](http://www.electrilabs.co.za)



**PRODUCT NAME**  
ELECTRISOL-SA

**MODEL NUMBER**  
ELE-PV-3020

**Application:** Solar Residential System, Recreational Vehicles, Marine Boat

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#### 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

#### 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 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

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#### 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 ..... 11.6 V (22 V ..... 23 V)

#### Operating Conditions

Ambient Temperature -20°C ..... +50°C

#### Fitting and construction

Terminal (fine/single wire) 16 mm<sup>2</sup> / 25 mm<sup>2</sup> - AWG 6 / 4  
Degree of protection IP 32  
Dimension (X x Y x Z) 169 x 97 x 44 mm  
Weight 350 g

*Technical data at 25°C/77°F*

