

Intelligent Solar System Controller

equipped with Maximum Power Point Tracking and is specially designed to work with all established module technologies up to 720 Wp and it is optimized for solar systems with module voltages higher than the battery voltage. The advanced MPP-tracking algorithm assures that the maximum available power from the solar panel is charged to the battery. The latest technology ensures full performance in all conditions, a professional battery care combined with modern design and excellent protection.



PRODUCT NAME
ELECTRISOL-SA

MODEL NUMBER
ELE-PV-3040

Application: Street Light, Solar Residential System, Telecommunication, Recreational Vehicles, Marine Boat, High Power Rural Electrification projects

www.electrilabs.co.za

Product Features

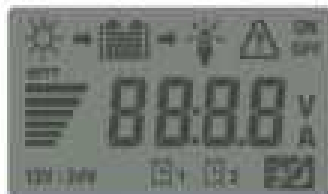
- Maximum Power Point Tracker (MPP Tracker)
- Voltage and current regulation
- Automatic detection of the voltage
- PWM control
- State of Charge (SoC) advanced technology
- Temperature compensated
- Common negative grounding
- Night light function with built-in time clock, on/off timer control
- Two timer schedule programmable
- 5 Vdc/0.5A USB port

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
- Overtemperature and 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

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Operating Performance

System Voltage	12 V (24 V)
Nominal Power	360 W (720W)
Max. Efficiency	> 98%
Typical Idle Consumption	< 20 mA

DC input side

Open circuit voltage solar module	< 75 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
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Fitting and construction

Terminal (fine/single wire)	16 mm ² / 25 mm ² - AWG 6 / 4
Degree of protection	IP 32
Dimension (X xY x Z)	203 x 145 x 53 mm
Weight	980 g

Technical data at 25°C/77°F

