

**Intelligent Solar System Controller**

for use in small solar home systems with 10 Amp and load power capacity up to 160 Wp. Load such as light, mobile chargers, small TVs and radios can be switched off manually on the controller without additional wall mounted switches. In professional applications such as telecommunications and traffic management technology, the controller can also be used in small photovoltaic power supply system. The electronic fuse makes the controller completely maintenance-free and robust. Thanks to the universal series switching technology the controller can be used with amorphous, thin film and crystalline solar modules.



<b>PRODUCT NAME</b>	<b>MODEL NUMBER</b>
<b>ELECTRISOL-SA</b>	<b>ELE-PV-1000</b>

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

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

- Product Features**
- Microcontroller digital accuracy
  - Voltage series regulation
  - 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**
- 3 LEDs show operating states - for operation, SoC, fault messages

- Operation**
- Manual load switch with automatic re-start

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



<b>MODEL NUMBER</b>	<b>1000</b>
<b>Operating Performance</b>	
System Voltage	12 V
Typical Idle Consumption	< 10 mA
<b>DC input side</b>	
Open circuit voltage solar module	<29 V
Max. input current	10 A
<b>DC output side</b>	
Max. load current	10 A
End of charge voltage	13.4 V ... 14.2V
Boost charge voltage	14.4 V
Reconnection voltage (LVR)	12.5 V
Deep discharge protection (LVD)	11 V ..... 11.5 V
<b>Operating Conditions</b>	
Ambient Temperature	-20°C ..... +50°C
<b>Fitting and construction</b>	
Terminal (fine/single wire)	6 mm <sup>2</sup> / 10 mm <sup>2</sup> - AWG: 10 / 8
Protection Degree	IP 32
Dimension (X x Y x Z)	118 x 90 x 31 mm
Weight	160 g
<i>Technical data at 25°C/77°F</i>	

