

# Pro

TECHNOLOGY

## Intelligent Solar System Controller

PRO30A PWM intelligent solar system controller is equipped with Maximum Power Point Tracking and is specially designed to work with all established module technologies up to 900 Wp. It is optimized for solar systems with module voltages higher than the battery voltage. The advanced MPP tracking algorithm technology assures that the maximum available power of solar array is charged to the battery. The latest technology ensures excellent protection and full performance in all conditions.



### PRODUCT NAME

Pro 30 PWM

**Applications:** Street Light, Solar Home System Telecommunication, Recreational Vehicles, Marine Boat, High Power Rural Electrification projects

### Product Features

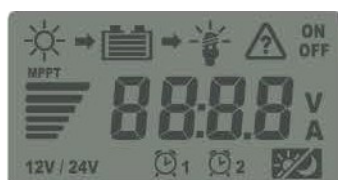
- Series Controller
- Voltage regulation
- Automatic detection of the voltage
- PWM Controller
- Multistage charging technology
- Current compensated load disconnection
- Automatic load reconnection
- Temperature compensation
- Common positive grounding or negative grounding on one terminal
- Night light 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
- Overtemperature and overload protection
- Battery overvoltage shutdown

### Displays

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



### Optional

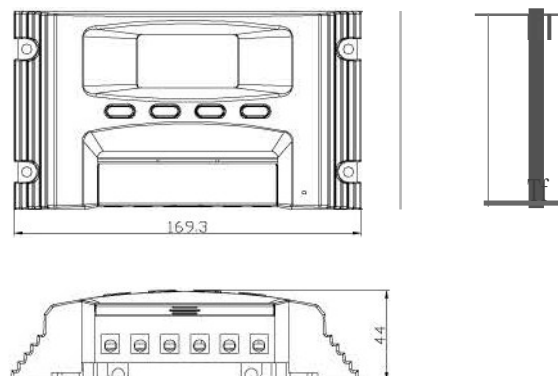
- External temperature sensor

### Operation

- Manual load switch

### Certificates

- Compliant with European Standard (CE)
- Compliant with UL Standard
- RoHS compliant
- Manufactured according to ISO 9001 and ISO 14001



### Operating Performance

System Voltage	12V (24 V)
Own Consumption	12 mA

### DC input side

Open circuit voltage solar module	<47 V
Module current	30 A

### DC output side

Load current	30 A
End of charge voltage	13.7 V (27.4 V)
Boost charge voltage	14.4 V (28.8 V)
Reconnection voltage (LVR)	12.5 V (25 V)
Deep discharge protection (LVD)	11V ..... 115 V (22 V .. 23 V)

### Operating Conditions

Ambient Temperature	-10°C ..... +50°C
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### 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)	190 x 112 x 52 mm
Weight	350 g

Technical data at 25°C/77°F

