

# Solar Charge Controller

## FEEL THE DIFFERENCE

Maruthi's Solar Charge Controller product lines are the best option for compact, stand alone solar systems. This charge controller's centerpiece is a microprocessor which controls a security and information functions as well as guaranteeing optimal charge control. Separate LED's clearly show the battery's charge level. This means the operator can determine the current operating status of their system at any time. With their 3-stage charging process (boost, float, trickle), Maruthi Solar charge controller can also charge flooded lead acid and VRLA batteries. In order to maximize the battery's life further still, the charge controllers also feature integrated temperature compensation. The housing can be installed directly onto a wall.



### Technical Specifications

Nominal Battery Voltage	: 12 / 24V (Auto Recognition)		
Solar Charging	: 5/10A (Max)	Load Current	: 5/10A (Max)
Charging Topology	: 3 Stage (Boost, Float & Trickle)		
Array Input Voltage	: 30V (Max) for 12V System, 50V (Max) for 24V System		
Regulator Type	: PWM Series Regulator		
Mode of Earthing	: Common Positive		
Terminations	: Screw Type Connector Suitable for 4Sq.mm Cable		
Self Consumption	: <6mA (With no LED glowing)		
Dimension	: 85X115X40mm (HXWXD)		
Enclosure	: Thermoplastic - ABS	Battery type	: Flooded / VRLA
Storage Temperature	: -20 to +65°C	Efficiency	: >95% (Typical)
Operating Temperature	: 0 to +50°C	Weight	: 270 Gram
Fixing	: Wall Mounting	Ingress Protection	: IP22
Humidity	: 95% RH	Application	: Indoor

Data subject to change due to continuous improvement.

### Features:

- Advanced microcontroller technology.
- Accurate voltage settings.
- Battery 12/24V auto detection.
- PWM based series battery charging.
- Very low voltage drops.
- Various LED's to indicate battery status and faults.
- Push button controlled status-indication to avoid idle power loss.
- 100% solid state.
- High efficiency series regulation with three stage charging technique.
- Built-in temperature compensation.

### Indications

- Charging in progress.
- Battery status indications.
- Low voltage disconnect.

## Maruthi Solar Systems

An ISO 9001-2008 Certified Company

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