

# Solar Charge Controller

## HomeGuard

HomeGuard series solar charge controllers are used in small off grid Solar PV systems. It uses PWM charging technology, so that as the battery reaches full charge, the PWM pulses slower, gradually tapering off the charging current. Low voltage disconnect protects the batteries from severe discharge by shutting off loads before the battery voltage drops to damaging levels. Temperature compensation adjusts the set point voltages according to the ambient temperature.

### Features

- Excellent charging algorithm to ensure highest State Of Charge (SOC)
- Increases the life of batteries due to PWM operation
- Very low voltage drops between PV, Battery and Load points
- Negligible self consumption
- Non-corrosive terminals

### Compliance & certifications

- Temperature compensated set points
- Manufactured at a ISO 9001:2015 certified facility



Solar Powered.  
No energy cost



12V DC  
Operated



Indoor  
Use



Micro-controller  
Based



Minimal  
maintenance

### Specification

#### General

Model	HomeGuard 6A	HomeGuard 6A
Application	OFF Grid Solar systems / Electrification, Battery Charging, Load control	
Suggested Module wattage (Max.)	12V, 90Wp	12V, 90Wp
Compatible Battery type	Flooded Lead Acid	VRLA (AGM)

#### Electrical

System Voltage	12V DC	12V DC
Charging current (Max)	6A	6A
Load current (Max)	6A	6A
Drop between PV and Battery	~490mV	~490mV
Drop between Battery and Load	~550mV	~550mV
Battery Depth of Discharge	<75%	<75%

Solar Charge Controller	Series, Two step, PWM operation, Efficiency > 95%, Self consumption < 6mA	
Display / Indications	Battery Low warning, Battery Low disconnect, Battery charging, Battery Full charge	
Battery side protection	Reverse Polarity, Over charging, Deep discharging, Battery Temperature Compensation	
PV Module side protection	Reverse polarity, Reverse current flow to PV Module during night	
Cable entry size	4 Sq.mm (Max), With fork terminal	

#### Shipping

Gross Weight	0.17Kg	0.17Kg
Volume	0.015CFT	0.015CFT

### Ordering Information

Model	Ordering Code	Description
HomeGuard 6A	SCC-M0606C	Solar Charge Controller, 12V DC, Max Charging current 6A, Max Load Current 6A, Flooded LA battery compatible
HomeGuard 6A	SCC-M0606D	Solar Charge Controller, 12V DC, Max Charging current 6A, Max Load Current 6A, VRLA (AGM) battery compatible

#### For Information

Online Page	<a href="http://www.ammini.com/products/homeguard">www.ammini.com/products/homeguard</a>
Email	<a href="mailto:sales@ammini.in">sales@ammini.in</a>
Tel	+91-471-2490 508, +91-471-3060 202, 9447060044

#### For Purchase & Enquiry

Ammini Solar Shoppee,  
All India Radio Road, Vazhuthacaud,  
Thiruvananthapuram-695014

✉ [shoppee\\_tvm@ammini.in](mailto:shoppee_tvm@ammini.in)  
☎ +91-471-2339336  
☎ +91 93871 60200