

SOLAR HOME CONTROLLER

The Solar Home Controller is the energy manager in a small stand alone SPV system such as a Solar Home System.

It is a micro controller based sophisticated device, which includes solar charge controller, load control, system protections, indications and wiring centre for the system in a single unit.

Primary purpose of the Home controller is to prevent the battery from being over charged. The Home Controller also prevents battery being over discharged.

The Microcontroller, which is the heart of the Home controller, controls all the functions more accurately and makes the system more reliable.

Solar home controller has separate load connecting points. You can connect many loads at a time, which can be controlled individually by the Rocker switches provided on the controller.



FEATURES

- Micro controller based design
- Excellent charging algorithm
- Temperature compensated accurate set points
- Adequate protection
- Wide range of operating temperature
- Suitable for both Tubular and VRLA batteries
- Engineering plastic body with adequate ventilation
- Compact, rugged, light weight and good looking
- Silent operation
- Enables easy and neat installation
- Tamper proof

TECHNICAL SPECIFICATIONS

	SHC-3A	SHC-6A
General		
Operating Temperature	-10°C to 65°C	
Storage Temperature	-10°C to 85°C	
Charge controller type	Micro controller based	
Charging type	Three step series PWM charging algorithm	
Battery temperature compensation	-3mV to -4mV/°C/cell	
SPV size (Max)	40Wp	90Wp
Indications	Charging, Low battery	Charging, Low battery, Full charge
Electrical		
Nominal system voltage	12V DC	
Charging current. Max	3A	6A
Load current. (Total) Max	3A	6A
Load current. (Individual loads) Max	2A	2A
Home controller efficiency	> 95%	
Idle consumption	< 6mA	
Protection	Against module reverse current flow, reverse battery, over load, short circuit, under and over voltage, under and over temperature	
Mechanical		
Fixing	Wall mounting with screws	
Case	Injection Moulded Engineering Plastic	
Connectors	Heavy duty terminal connectors	
Size (Shipping) (LxWxD)(mm)	185x125x50	
Weight (Shipping)	350gm	

Note: Specifications subject to change without notice. Check for latest update

ORDERING INFORMATION

Model	System voltage	Max. Module wattage	Max. Charging current	Maximum Load current	Battery type
SHC-M0303A	12V DC	40Wp	3A	3A	Flooded
SHC-M0303B	12V DC	40Wp	3A	3A	VRLA (SMF)
SHC-M0606A	12V DC	90Wp	6A	6A	Flooded
SHC-M0606B	12V DC	90Wp	6A	6A	VRLA (SMF)