

## SolaHome Systems (SHS)

Small independent power stations, ideal for providing light, cell-phone charging capabilities, as well as supplying enough power for radios and even TV's (larger size option) for the household. With the SolaHome systems- you will never again be left in the dark.

### Features

- All-in-one solution
- Control housing/box design minimizes installation time and errors
- Flexibility in panel size selection
- Standard systems for 45 and 90 watt solar panels
- Battery and control system within non corrosive, enclosure
- Batteries up to 105 A/HR high cycle (2 105 Amp\Hr for 90 watt system)
- Single and dual battery enclosures available
- Terminal blocks for external connections up to 5 lighting circuits
- Cigarette lighter output for cell phone charging
- 10 amp charge control systems (20 amp for 90 watt version)
- Pull switch E27 light fittings with high brightness 5 watt LED Lights
- Optional inverter disconnects before lights at battery low voltage



Solahome has been designed for maximum ease of installation, cutting down costs by cutting down installation time and eliminating installation errors. The component parts that make up the system consist of: The control housing, the PV panel and its support, wiring and lights.

The control housing is fitted with a 5 amp or 10 amp charge controller. The 5 amp charge controller can take the input from up to an 80 watt panel. The maximum load is 5 amps at 12 volts. This equates to up to 5 x 11W Compact Fluorescent (CFL) lamps all switched on at the same time (or even more 5W LED lights). The 10 amp controller can accept up to two 80 watt panels and is suited for both lighting and TV loads, where the TV is powered from an optional inverter (with a built-in 230V output plug on the control housing/box).

The charge controller controls the charge rate of the battery and will disconnect the load if the battery drops below 11.6v and only reconnect at 12.4 volts. This automatic function ensures longer life span of the battery.

Input terminals are provided for the Solar panel. The recommended wire size from the panel is 4sq mm to reduce the loss of energy from the panel.

5 sets of terminals are provided for the external circuits. These are rated for 2.5 sq mm cables.

A cigarette lighter socket is provided for the use of a 12v cell phone charger.

The display on the front of the housing indicates the battery status and indicates the charge rate from the panel.

## Control Housing



**Front Panel:**  
Charge Indicators, Cell-Phone Charger Outlet



**Back Panel:**  
Panel Connections, Lights and 9V Radio Outlet



**Side Panel:**  
230V Output Socket from Inverter for 90W Systems

Basic SolaHome System Package includes:  
4 x Lights and all required cabling.

