



# SOLAR HOME SYSTEMS

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✓ A Solar Home System extends the day: having light at home frees up time in afternoon. (household chores can be done at night time. In addition having light in the shop can be used to extend its opening hours.

✓ It enables us to be connected to the world through radio and TV.

✓ It can help develop a business: Solar Home Systems can power computers, play stations, TV & VCD, lights, karaoke-bar. All these services are income generating.

For all these applications, Solar Home Systems are cheaper than any other form of energy, as long as you do not have access to grid-electricity.

The base unit will consist of the following:

- Solar Panel
- Charge controller
- Battery



## Features:

- Completely assembled and factory tested
- Portable and ready to use
- Simple 'plug and go' operation
- External inverter switch (AC Model only)
- PV module mounting accessories
- 220VAC socket with outdoor cover (AC Model only)
- Internal 150-watt AC inverter (AC Model only)
- Battery meter indicates state-of-charge
- Sockets separately fused
- Corrosion and weather-resistant, rugged, non-breakable enclosure
- Designed for DC charging by solar panels
- 2 DC sockets for 12V loads up to 90W each
- Environmentally friendly



## Ideal for:

- Emergency Power
- Disaster Relief Power
- Remote Power
- Camping & Boating
- Tool Sheds, Barns
- Construction Sites
- Farms
- Field Work

# Solar Home System

Sample Usage per Day: (Watt hours = estimated wattage of appliance X hours of run time)

Appliance	Wattage	X	Run Time	=	Watt Hours
2- 5W lights	5W		8 hours (4 hrs each)	=	40 Wh
1 Radio	10W		3 hours	=	30 Wh
1 Fan	40W		1 hour	=	40 Wh

TOTAL Wh per day usage: = 110 Wh

The Solar Home System is a complete source of battery power which comes in a number of models to meet your power needs. The base system is powered by a 20Wp solar panel which may be upgraded to 140Wp if required. Battery capacity is 70Ah which is upgrade-able to 100Ah if required. This fully integrated unit quietly generated DC electricity (AC also if you have the inverter option) to run small appliances such as lights, small televisions, fans and laptop computers.

The Solar Home System is recharged from a solar module. A controller monitors the charge to avoid under and over charging the battery, and a meter displays how much charge is in the battery. The AC model includes an internally mounted inverter that changes DC electricity to AC electricity for use with most appliances. The externally mounted rocker switch lets you turn the inverter off and on as needed. The AC unit includes one 220VAC socket with an outdoor cover as well as a 12VDC socket mounted in the end panel. The base unit comes with two DC sockets for 12V loads. Options are higher Wp panels size, increase in battery size and inverter sizes of 150W or 250W.

The Solar Home System never needs fuel, is absolutely silent, and requires little maintenance. This solar generator is housed in a weather resistant and secure metal enclosure. All you need to do is plug the solar panel into the enclosure to charge the battery. Once the battery is charged, you are ready to go.



**Nomad Power Systems**  
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