

Solar Home Kit

The accessible way to solar electricity

Accessible

The Solar Home Kit is an affordable starter's solution that has been designed to provide the most basic electric energy services. It has been developed to use the power of only one or two 14 Watt-peak solar panels.

To expand the system, the end-user can add additional 14Watt Free Energy panels to the basic system.

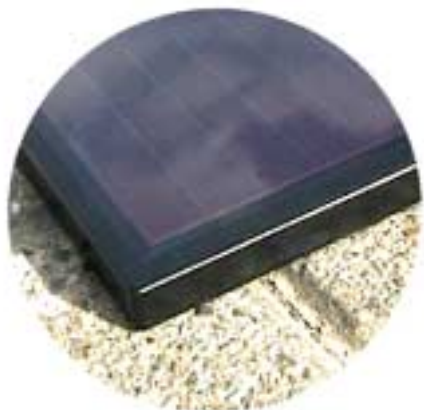
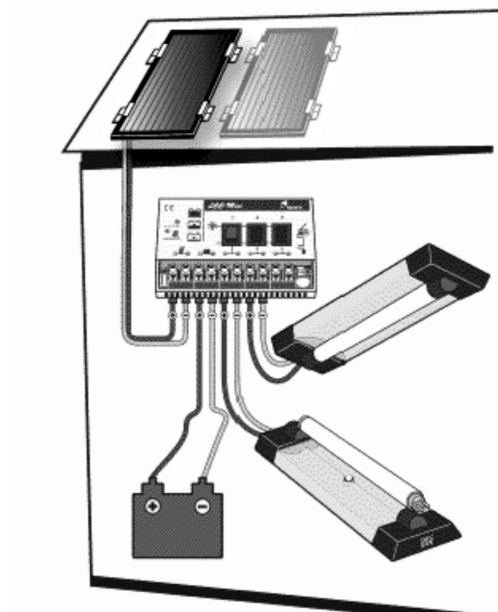
Complete

The Solar Home Kit is a complete system to power electric lights and other 12Volt electrical appliances, such as a small television.

The Solar Home Kit is easy to install. It includes one or two solar panels, a charge regulator, two 30cm tube lights, one nightlight, all needed cables, installation materials and a manual. The end-user only has to add a battery.

Reliable technology

The Solar Home Kit is based on 4th generation a-Si solar technology. With its stable cell technology and advanced framing to protect against corrosion, the expected lifetime of the 4th generation a-Si solar panels is over 20 years.



Components

Component	Solar Home Kit 14	Solar Home Kit 28
Solar panel	1 x FEE-14-12 (14 Watt-peak*) 4 th generation a-Si technology	2 x FEE-14-12 (14 Watt-peak*) 4 th generation a-Si technology
Regulator	1 x LCC Mini (4Amp) deep-discharge protection 11.4V at 25°C over-charging protection 14.9V at 25°C	1 x LCC Mini (4Amp) deep-discharge protection 11.4V at 25°C over-charging protection 14.9V at 25°C
Lights	2 x 30cm cool white tube lights (6 Watts) 1 x integrated nightlight (1Watt)	2 x 30cm cool white tube lights (6 Watts) 1 x integrated nightlight (1Watt)
Battery cable	1 x 1.5 meters, 2x2.5 mm ² with 10A fuse	1 x 1.5 meters, 2x2.5 mm ² with 10A fuse
Module cable	1 x 5 meters, 2x1.5 mm ²	1 x 5 meters, 2x1.5 mm ²
Lighting cables	2 x 7.5 meters, 2x0.75 mm ²	2 x 7.5 meters, 2x0.75 mm ²
Other	1 x Set of installation materials 1 x Manual	1 x Set of installation materials 1 x Manual

*Electrical data refer to standard test conditions. The rated electrical parameters may vary $\pm 10\%$.

To be added by end-user (not included)

Component	Solar Home Kit 14	Solar Home Kit 28
Lead acid battery	1 x 12 Volt, 30 Ah (suggested capacity)	1 x 12 Volt, 50 Ah (suggested capacity)

Available energy services

On an average sunny day, enough solar energy will be generated, for example, for*:

System	Solar panels	Tube light 1	Tube light 2	Night light	Television (Not included)
Solar Home Kit 14	14W _p (1 panel)	4 hours	and 1½ hours	and 8 hours	-
Solar Home Kit 28	28W _p (2 panels)	4 hours	and 2 hours	and 8 hours	and 2 to 4 hours**

*at 5½ hours of full sun equivalent, i.e. 5.5 kWh/m², assuming 60% performance ratio.

**based on a 12Watt television (14 inch, black and white), depending on use of the television