

# CHAMPION<sup>®</sup> SOLAR



## Solar Power Generating System

CHAMPION SPG comes in two models, SPG 40W & SPG 75W. The system consists of an electronic box containing the battery and electronics, 3 LED lamps, Mobile charger option, Solar panel, The innovative, cost effective & energy efficient LED based design of this new product provides light output at par with 14W CFL from each lamp. Can also power DC tower Fan. It can be termed as single solution for all daily household needs.

The product is equipped with all required protections with a special arrangement to prevent deep discharging of battery.

## Salient Features

- Constant light output over entire battery backup range.
- Light output for single lamp equivalent to 14W CFL.
- SMART charge technology for fast battery charging & long battery life.
- Mobile charging can also be used along with LED lamp.
- Runs 12V DC fan/ DC TV/ DC Lamp.
- Lamps, Fan/TV and mobile charging points can be used together.
- Provision to connect external battery (20Ah – 200Ah) for very long back up.
- Optimum solution for daily usage of 2 lamps for 5 hrs. + DC fan/TV for 3 hrs. + mobile phone charging for 2 hrs.
- SMT technology hence higher reliability & compact design.
- Equipped with battery deep discharge, battery over charge and short circuit protection.
- Over current, short circuit & open LED protection.

## Technical Specifications

Model	SPG - 40 W	SPG - 75 W
Solar Panel Power	40W, V <sub>m</sub> 18V	75W, V <sub>m</sub> 18V
Battery	40 Ah / 12 V	75 Ah / 12 V
Controller	5A / 12V	10A / 12V
Lamp Power	3W 2LED + 5W 1LED	5W 2LED + 3W 1LED
Fan Power	1 Fan 12V, 15W	
TV Power	1 TV 12V, 20 W (Optional)	
DC Voltage	DC 12, DC 5V	
DC Output Socket	DC 12V Socket *4 Pcs, USB Output Socket *2 Pcs	
Max. Charge Current	3 A	5 A
Max. Load Current	2 Amp./Socket	
Protection	Surge, Overload, Short circuit, etc.	
Operating Temperature	Discharge: -20°C ~ 50°C, Charge: 0°C ~ 50°C	
Type of Protection	IP22	
Power Box Size (L*W*H)	295 x 210 x 230mm	450 x 230 x 230mm
Power Box Weight	18 Kg	29.5 Kg

## Components :

Solar Panel & Cables



Power Box



Lamp



Fan



TV (Optional)



Note: The specifications are subject to change without notice.

## Aar-em Electronics Pvt. Ltd.

17-B, Hadapsar Industrial Estate, Pune - 411013.

Tel.: 020-26874783 Fax: 020-26871413

E-mail: [champion@vsnl.com](mailto:champion@vsnl.com)

[www.championsolar.in](http://www.championsolar.in)

