Harness the Power of the Sun...

With the SOLAR Battery Charger System

The first expandable system that allows you to simply plug-in additional panels

SOLAR Battery Charger system

So, how does it work?

Throughout daylight hours the Solar panel charges your battery. When needed the stored battery power will be used.

How much battery power you consume depends upon your lifestyle, size of your caravan or motorhome and whether you tour all year and the number of people.

The flow chart bottom centre is an aid to help you determine the sort of capacity you may require. However, if you’re unsure first install a 50W or 100W MASTER Panel and see how you manage.

If you need more generating capacity simply connect a 50W or 100W ADD-ON Panel. The SOLAR system has a maximum capacity of 250 Watts.

First, the MASTER

50/100 Watts

If you need more capacity, it’s expandable

Just add panels to a total of 250 Watts

The performance of the solar panel and its ability to charge your battery will be dependent upon the quality of ambient daylight. In full sunlight, it would be 100% efficient, sunny intervals 80% and cloudy 50%.
The SOLAR Battery Charger System is designed as an expandable system for those looking for power independence but unsure of their power requirements.

The system is designed around the 50W or 100W MASTER Panel and the high specification Power Controller which allows the addition of ADD-ON Panels to give a maximum capacity of 250W.

Once the MASTER Panel is installed, ADD-ON Panels simply glue into place, no special tool or drilling of holes required.

The ADD-ON Panels come fitted with the female link cable with integrated waterproof cap, plus the 3 metres of white male Link cable to allow maximum flexibility when locating additional panels on the roof.

**MASTER Panel includes**
- 50 or 100 Watt solar panel
- 20 Ah Charge controller
- Roof mount cable gland
- 5 metres of power cable
- 350 mm female link-cable with water proof cap
- In-line fuse
- Connectors & Fittings
- Full Instructions

**ADD-ON Panel includes**
- 50 or 100 Watt solar panel
- 3 metres of link cable in white
- 350 mm female link-cable with water proof cap
- Connectors & Fittings
- Full Instructions

**Specification**
- 20 Year warranty on cell output
- IP68 Rating for Link Plugs
- Panel Dimensions: 100W - 660 x 456 x 57 mm
  - 50W - 660 x 505 x 57 mm
- Panel Weight: 100W - 7.3Kg
  - 50W - 4.2Kg
- Operating Temperature: -40º to +85ºC

The chart below shows examples of appliance power consumption in both Amps and Watts.

<table>
<thead>
<tr>
<th>Equipment</th>
<th>Power usage in Amps</th>
<th>Running time in Hours</th>
<th>Amp hours used</th>
<th>Watt hours used (=Amps multiplied by voltage - 12v)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fluorescent Light</td>
<td>0.75</td>
<td>x 3.00</td>
<td>2.25</td>
<td>x 12 27</td>
</tr>
<tr>
<td>3 Reading lamps</td>
<td>1.5</td>
<td>x 3.00</td>
<td>3.00</td>
<td>x 12 36</td>
</tr>
<tr>
<td>Colour TV</td>
<td>3</td>
<td>x 1.50</td>
<td>3.00</td>
<td>x 12 45</td>
</tr>
<tr>
<td>Water Pump</td>
<td>7</td>
<td>x 1.00</td>
<td>3.50</td>
<td>x 12 42</td>
</tr>
</tbody>
</table>

Total 195

In the example above a 50 watt panel will satisfy the requirement based on four hours of sunshine. That is 50Watts x 4 hours = 200Watts or 100Watts x 2 hours = 200Watts.