



PROJECT SHEET: SOLAR CHARGERS

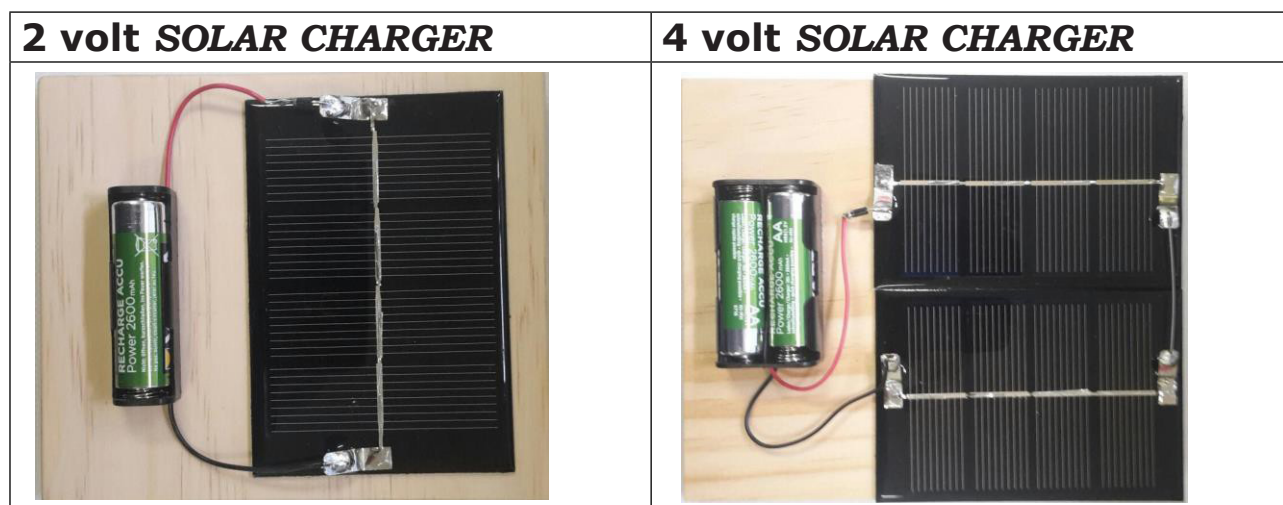
2V or 4V SOLAR CHARGER

DESCRIPTION

The *SOLAR CHARGER* allows you to make a simple charger for either one or 2 AA Rechargeable batteries.

Depending on your requirements, you can make either:

- A 2 volt charger for one battery
- A 4 volt charger for 2x AA batteries



SECTION 1: COMPONENTS & MATERIAL REQUIRED

COMPONENTS REQUIRED (available from ScorpioTechnology)

The following components are available from us and need to be ordered separately.

| 2 volt <i>SOLAR CHARGER</i> | 4 volt <i>SOLAR CHARGER</i> |
|--|---|
| <ul style="list-style-type: none"> <input type="checkbox"/> 1 x SOLAR3 solar panel <input type="checkbox"/> 1x 1AA Battery holder <input type="checkbox"/> 1 x Diode IN5817 <input type="checkbox"/> Double sided foamtape | <ul style="list-style-type: none"> <input type="checkbox"/> 2x SOLAR3 solar panels <input type="checkbox"/> 1x 2AA Battery holder <input type="checkbox"/> 1 x Diode IN4004 <input type="checkbox"/> 50mm Tinned copperwire <input type="checkbox"/> Double sided foamtape |

NOTE: The Tinned copper wire is used to connect the first panel's negative terminal to the second panel's positive terminal

ADDITIONAL REQUIREMENTS

- .. AA Rechargeable battery/ies (available from Bunnings, Battery World etc)
- .. Material for the baseboard

SECTION2: GENERAL INFORMATION

The diode prevents electricity flowing back through the circuit: ie. it stops the batteries discharging to the solar panel.

NOTE: due to the higher amperage of the 2AA design you can use a normal diode (IN4004) but the single AA unit requires a Shottky diode.