

# Huge savings on solar camping kits.



With Panels, solar charge controller, leads and branch connectors available you can easily fabricate your own fold away kit, saving you \$\$\$\$\$.

For restricted storage area, simply hinge 2 or even 3 x 45w panels together depending on your required power output.

Should your solar requirement be a roof top application for e.g., 4 Wheel Drive, Camper or Caravan then the 100w and 140w panels are recommended.

The C2430 Charge controller has the capacity to accommodate 2 x 100w or 2 x 140w panels coupled together, providing 200w or 280w of power depending on your requirements.

All components supplied by SPS have full warranty and back up service held here in Australia.

## Solar Panels

### Characteristics

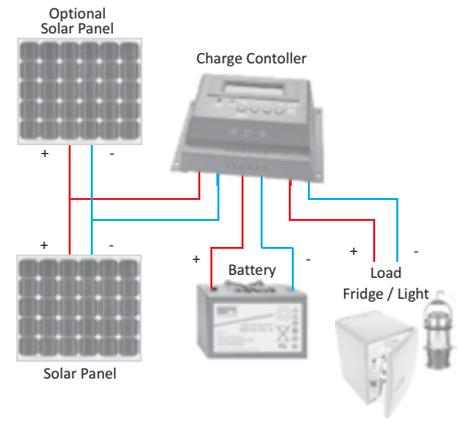
WATTS	DIMENSIONS	WEIGHT	Voc (V)	Vpm (V)	Isc (A)	Ipm (A)
45	676 x 547x35mm	3.8kg	22.45	18.25	2.73	2.47
100	1080x 808x35mm	11kg	26.60	22.60	5.01	4.42
140	1202x 808x35mm	13kg	31.80	27.10	5.69	5.16



## C2430 Solar Charge Controller

The Solar Charge Controller can store DC generated power by solar panels in a battery. This can effectively provide living and industrial electricity particularly in remote areas and tourist destinations that do not have electricity available. This has no negative effect on the environment.

Typical Wiring Diagram



### Functions:

1. CPU control, LCD display
2. Automatic recognition of input voltage
3. Applying with various types of durable batteries
4. Micro processing controller Pulse Modulation Wide-frequency PWM charge
5. Setting the voltage of low voltage cut-off/resuming connection of the DC output of the load port
6. Temperature sensor for charging a battery in compensation
7. Protective circuit of PV from reverse-charging.
8. Overload protection
9. Overcharge protection
10. Short circuit protection
11. The temperature compensate
12. Reverse polarity connection protection
13. Converse discharge protection
14. Thunder protection
15. Low voltage protection

Model	SPS-C2430 20A	SPS-C2430 25A	SPS-C2430 30A
<b>Max Load current</b>	20A	25A	30A
<b>Rated Voltage</b>	12V/24V	Automatic voltage recognition	
<b>Input voltage range</b>	12V-17V/24V-34V		
<b>Length ≤1m Charge loop drop</b>	0.25V		
<b>Length ≤1m Discharge loop drop</b>	0.05V		
<b>Over voltage protection</b>	17V/34V (Default value, can be reset)		
<b>Full charge cut</b>	13.7V/27.4V (Default value, can be reset)		
<b>Low voltage cut</b>	10.5~11V/21V~22V (Default value, can be reset)		
<b>Float charging voltage</b>	13.7V/27.4V		
<b>Boost charging voltage</b>	14.2V/28.4V		
<b>Load reconnect voltage</b>	12.8V/25.6V		
<b>Load disconnect voltage</b>	11.4-11.9V, +2/24V		
<b>Temperature compensation</b>	-3mv/°C/cell		
<b>No load loss</b>	≤ 20mA		
<b>Max wire area</b>	4mm <sup>2</sup>		
<b>Ambient temperature</b>	-25----+55 °C		



### Leads

1 Pair with M/FM MC4 connectors for easy coupling to panels available in the following lengths  
4 - 5 - 6 metre



### Branch Connectors

Branch connectors are used for coupling 2 panels together utilising the male and female MC4 connectors without the need of cutting and joining leads, leaving a neat and tidy appearance.