

# The dawn of a new era in solar

Introducing the  
complete solar range  
by REDARC

THE POWER OF

**REDARC**<sup>®</sup>

**SOLAR**

There's a new generation, state-of-the-art solar range from REDARC that heralds an exciting new period in charging 12 volt batteries from solar power. For portable or permanent solar solutions, REDARC have you covered.

The range includes a red Solar Blanket Amorphous Cells and black Solar Blanket SunPower<sup>®</sup> Cells for ultimate flexibility and storage.

Monocrystalline Portable Folding Solar Panels are available in 120 and 160 watt power ratings, with adjustable legs to get the most out of the sun.

Additionally, Monocrystalline Solar Panels are available and are ideal for permanent installation on the roof of a caravan, vehicle, camper trailer or motorhome.

Setup is also easy, thanks to genuine industry standard Anderson<sup>™</sup> SB<sup>™</sup>50 plug connectors – just plug and play.

REDARC Solar, best under the sun.

### Look at all the benefits...

- Designed for portability and strength
- Superior solar cell technology
- Use solar power to charge 12 volt automotive, marine, and recreational vehicle battery systems
- Genuine industry standard Anderson<sup>™</sup> SB<sup>™</sup>50 plug connectors



# The REDARC solar range... a new era

## Solar Blankets and Panels

### Solar Blanket Amorphous Cells

The 112 watt Solar Blanket Amorphous Cells offers superior flexibility in a light weight, convenient sized package. Its flexible design reduces risk of cell breakage and cracks and performs better in low light conditions compared to crystalline panels. The Amorphous cell blanket comes with Uni-Solar® cells which incorporates a triple layer system. These cells are optimised to capture the full spectrum of light compared to conventional mono and poly cells.

Designed to charge 12 volt automotive, marine and recreational vehicle battery systems, the 112 watt Solar Blanket Amorphous Cells are designed to provide high performance, particularly at high ambient temperatures.

Using an anti-reflective, scratch-resistant ETFE coating, the 112 watt Solar Blanket Amorphous Cells features a high melting temperature, UV resistance, chemical resistance, non-stick and self-cleaning properties.

What's more, setup is now even easier thanks to genuine industry standard Anderson™ SB™50 connectors.

These high quality Anderson™ plugs are simple and fast to connect with no screw terminals and no risk of poor connections from frayed wired or loose terminals – just plug and play!



### Solar Blanket SunPower® Cells

The Solar Blanket SunPower® Cells range are available in 115, 150 and 190 watt ratings and are designed for portability and strength.

The unique design of SunPower® Cells reduces cell failure from corrosion and breakage. They feature no grid lines, a solid copper backing and thick connectors for higher efficiency.

Designed to charge 12 volt automotive, marine and recreational vehicle battery systems, these blankets are compact and lightweight, making them highly portable and easy to store.

With a high power output, they are about a third of the weight of an equivalent glass folding panel.

Highly reliable and efficient using an anti-reflective, scratch-resistant ETFE coating, the blanket range features a high melting temperature, UV resistance, chemical resistance, non-stick and self-cleaning properties.

What's more, setup is now even easier thanks to genuine industry standard Anderson™ SB™50 connectors.



### Monocrystalline Portable Folding Solar Panels

REDARC Monocrystalline Portable Folding Solar Panels are available in 120 and 160 watt ratings and feature A-grade, highly efficient Monocrystalline cell technology.

The lightweight design features adjustable legs that allow the panels to be angled towards the sun and moved as required.

A 5 metre Anderson™ to Anderson™ cable is included so you can continue to get the most out the sun while you set up camp in a shady area.

Fitted with genuine, industry-standard Anderson™ SB™50 connectors, solar panel setup has never been easier or faster.



### Monocrystalline Solar Panels

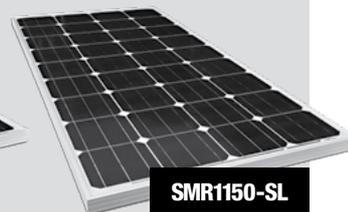
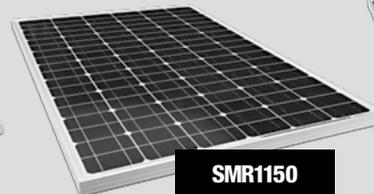
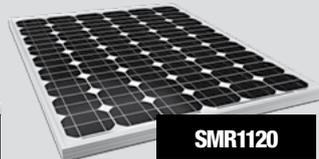
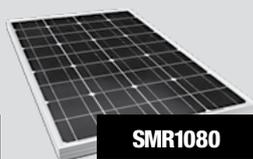
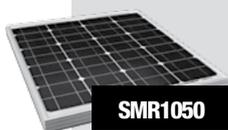
REDARC Monocrystalline Solar Panels are available in 50, 80, 120, 150 watt ratings, including a slimline 150 watt design.

They are perfect for the roof of your vehicle, caravan, camper trailer or motorhome for a permanent solar power solution.

The panels are made from highly efficient, A-grade monocrystalline cells.

They are protected with tempered glass coating and a sturdy aluminium frame ensuring the panels will withstand Australia's harshest roads and extreme weather conditions.

The panels feature quick release tab MC4 connectors and are compatible with the SRP range of regulators.



## Solar accessories

### Solar Regulator and Remote Monitor - Anderson range

#### Solar Regulators

REDARC's SRPA Solar Regulators with Anderson™ SB™50 connectors are available in 10, 20 and 30 amp ratings.

Featuring multi-stage charging - boost, absorption and float - REDARC's Solar Regulators ensure that the correct charge is supplied safely and efficiently and protects batteries from overcharging.

REDARC's Solar Regulators work with multiple chemistry batteries including AGM, standard and calcium, are ideal for permanent installation or portable systems and have multiple levels of protection including over temperature, over charge and reverse polarity.

Regulators from the SRPA range are best suited for use with the Solar Blankets and Folding Solar Panels. When the MC4 to Anderson connector cable (SRC0017) is purchased, the SMR Solar Panels can use the Anderson range of regulators.

#### Solar Remote Monitor

REDARC's 12/24 volt solar monitor with a large, 3" back-lit LED display allows you to monitor the Solar Panels, battery and system information.

It provides panel charging information, real time system monitoring and allows battery setting and configuration setting changes to the solar regulator.

This product is only compatible with the SRPA range of Solar Regulators.



SRPA0120



SRPA0240



SRPA0360



SRPA-RM

### Solar Regulator and Remote Monitor - SRP range

#### Solar Regulators

REDARC's Solar Regulators with bare wire connection are available in 10 and 20 amp ratings.

The regulators ensure that the power supplied by your Solar Panels, through multi-stage charging, is at the right voltage to charge your house or auxiliary batteries. These regulators are suitable for charging up to two separate battery banks.

The SRP regulators are primarily used with the SMR range of Solar Panels. When the Anderson to bare wire connector cable (SRC0016) is purchased, the Solar Blankets and Folding Solar Panels can use the SRP range of Solar Regulators.

#### Solar Remote Monitor

The SRP0240-RM remote monitor provides an informative, user friendly display, tracking the power the Solar Panels are producing and the charge stage of the battery.

This product is only compatible with the SRP range of Solar Regulators.



SRP0120



SRP0240



SRP0240-RM



### Why Anderson?

Anderson plugs are common connections for recreational vehicles. REDARC uses genuine industry standard Anderson™ SB™50 plug connectors across the solar range. These high quality Anderson™ plugs are simple and fast to connect with no screw terminals and no risk of poor connections from frayed wires or loose terminals. For the most part, no tools are required to connect all your solar products together - just plug and play.



## Cable accessories

REDARC's extensive range of cables and adaptors offer easy connection to the solar range using Anderson™ SB™50 connectors. The range offers the ability to set up camp in a shady area but still get the most out of the sun. What's more, they can be used with REDARC's BCDC range and Battery Management System range.

### Cables



**1.5m Anderson™ to Anderson™ Cable**  
SRC0008

The 1.5 metre Anderson™ to Anderson™ Cable provides the option to connect the solar panel to the solar regulator or the solar regulator to the vehicle battery via an Anderson plug connection



**5m Anderson™ to Anderson™ Cable**  
SRC0018

The 5 metre Anderson™ to Anderson™ Cable provides the option to increase distance, up to 5 metres, from the solar set up to the vehicle to get the most out of the sun.



**10m Anderson™ to Anderson™ Cable**  
SRC0019

The 10 metre Anderson™ to Anderson™ Cable provides the option to increase distance, up to 10 metres, from the solar set up to the vehicle to get the most out of the sun.

### Battery Cables – for permanent or portable set-up



**1.5m Anderson™ to Battery Clip Cable**  
SRC0009

The 1.5 metre Anderson™ to Battery Clip Cable connects the solar regulator directly to the battery terminals.



**1.5m Anderson™ to Battery Eyelet Terminal Cable**  
SRC0010

The 1.5 metre Anderson™ to Battery Eyelet Terminal Cable allows a permanent connection from the solar regulator directly to the battery terminals.

### Cables – for multi-panel set-ups



**Anderson™ Parallel Cable**  
SRC0012

The 0.3 metre Anderson™ Parallel Cable is used to connect multiple Solar Panels together in parallel, increasing your total panel wattage.



**Anderson™ Series Cable**  
SRC0011

The 0.3 metre Anderson™ Series Cable is used to connect multiple Solar Panels together in series, increasing your total panel voltage.

### Connector Cables



**MC4 to Anderson™ connector cable**  
SRC0017

The 1.5 metre MC4 to Anderson™ connector cable can be used to connect the Solar Panels (SMR) to the SRPA Solar Regulators.



**1.5m Anderson™ to bare wire cable**  
SRC0016

The 1.5 metre Anderson™ to bare wire cable can be used to hard-wire SMPA Portable Folding Solar Panels as well as SAF and SSF Solar Blankets to the SRP Solar Regulators.

### Works best with...

The REDARC 20 Amp Solar Regulator and Cable Value Pack offers a complete solar power kit when purchased with any Solar Blanket or Folding Solar Panel.



**SRPA20-VP**

### Which regulator for your Solar Panel

Solar Panel	SRPA 'Anderson' Regulators	SRP Regulators
SAF1112	✓	✗**
SSF range	✓	✗**
SMPA range	✓	✗**
SMR range	✗*	✓

\* The SMR range is not compatible with SRPA Solar Regulators, Remote Monitor and cable accessory range unless an SRC0017 cable is used.

\*\* SAF112, SSF and SMPA range are not compatible with SRP Solar Regulators and Remote Monitor unless the SRC0016 cable is used.

### The REDARC Solar Calculator

The REDARC solar calculator provides a guide to which solar products are best suited to your needs. To access the solar calculator visit [redarc.com.au](http://redarc.com.au)

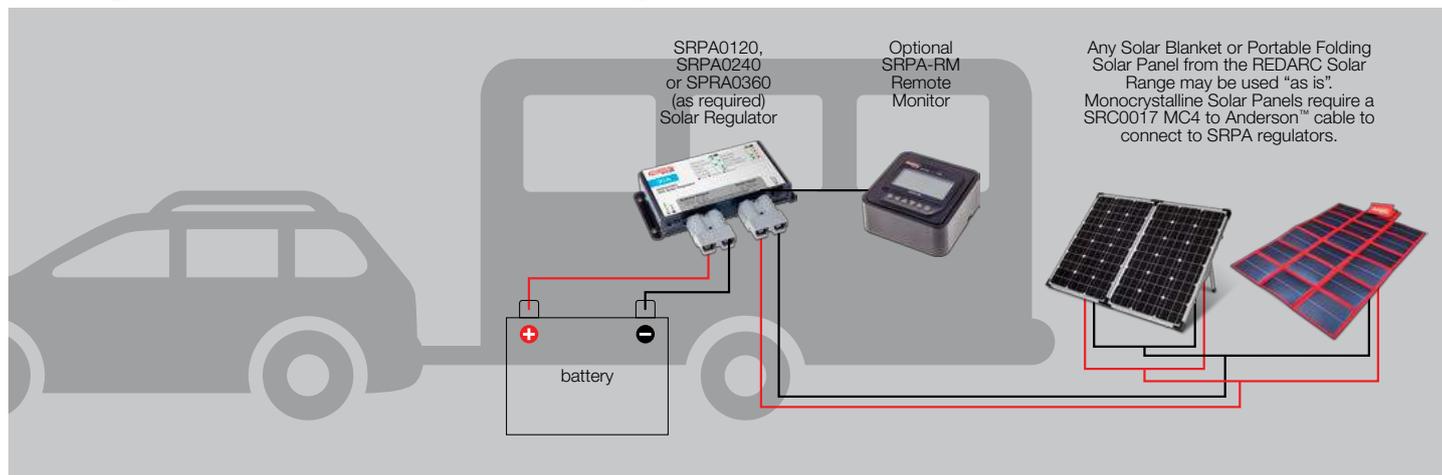
Confused about Solar?

[Learn more](#)

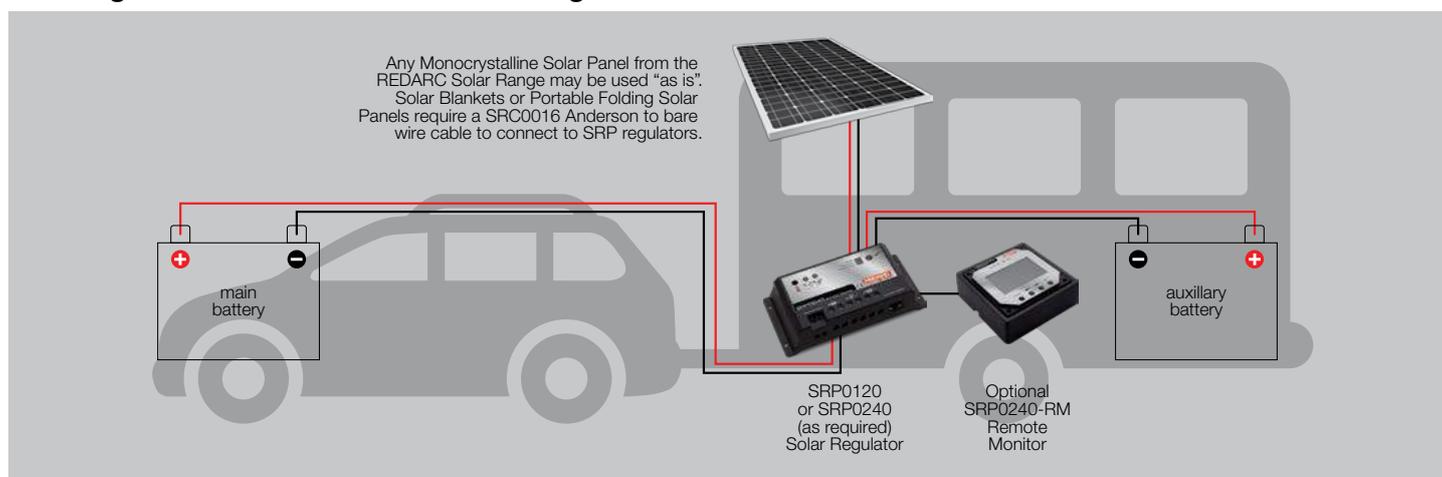


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SOLAR

## Solar Regulator and Remote Monitor - Anderson range installation



## Solar Regulator and Remote Monitor - SRP range installation



## Solar Regulator specifications

	SRP0120	SRP0240	SRPA0120	SRPA0240	SRPA0360
Output current	10A	20A	10A	20A	30A
Battery voltage	12/24V	12/24V	12/24V	12/24V	12/24V
Maximum power rating	120/240W	240/480W	120/240W	240/480W	360/720W
Charge type	PWM25Hz (factory setting) or PWM50HZ	PWM25Hz (factory setting) or PWM50HZ	PWM 50Hz	PWM 50Hz	PWM 50Hz
Waterproof IP rating	N/A	N/A	Yes - IP55	Yes - IP55	Yes - IP55
Operating temperature	-35° to +50°C	-35° to +50°C	-35° to +55°C	-35° to +55°C	-35° to +55°C
Dimensions (H x W x D)	37 x 153 x 76mm	37 x 153 x 76mm	28 x 153 x 98mm	28 x 153 x 103mm	28 x 153 x 108mm
Weight	240g	260g	480g	520g	550g

## Remote Monitor specifications

	SRP0240-RM	SRPA-RM
Monitor communication	N/A	RS485
Power consumption - backlight on	<30mA	<23mA
Power consumption - backlight off	<3mA	<15mA
Operating temperature	-10° to +40°C	-20° to +70°C
LCD screen size	70.0 x 45.0mm (3.3")	76.5 x 42.0mm (3.2")
Faceplate screws included/size	No - 4 required	Yes - 4 included/M4
Wall bracket screws included	No - 4 required	No - 4 required
Remote monitor connection	RJ45	RJ45
Dimensions - overall	95.0 x 95.0 x 24.0mm	114.0 x 114.0 x 48.2mm
Dimensions - screen faceplate	95.0 x 95.0 x 8.0mm	98.0 x 98.0 x 15.5mm
Dimensions - mounting bracket	112.0 x 112.0 x 35.0mm	114.0 x 114.0 x 45.5mm
Weight	105g	320g

## Regulator battery type information

Battery type	AGM	Standard	Calcium
selectable via SRPA-RM or SRP0240-RM	(default setting) 12V / 24V	12V / 24V	12V / 24V
Battery voltage range (SRP)	9-15V / 18-30V	9-15V / 18-30V	9-15V / 18-30V
Battery voltage range (SRPA)	9-16V / 18-32V	9-16V / 18-32V	9-16V / 18-32V
Float voltage (SRP & SRPA)	13.6V / 27.2V	13.6V / 27.2V	13.6V / 27.2V
Solar panel input voltage range (SRP)	16-30V / 31-55V	16-30V / 31-55V	16-30V / 31-55V
Solar panel input voltage range (SRPA)	16-32V / 34-50V	16-32V / 34-50V	16-32V / 34-50V
Absorption voltage (SRP & SRPA)	14.4V / 28.8V	14.6V / 29.2V	14.8V / 29.6V
Equalise charging voltage (SRPA)	N/A	14.8V / 29.6V	15.0V / 30.0V

## Solar Blanket specifications

	SAF1112	SSF1115	SSF1150	SSF1190
Peak power output*	112W	114.8W	153.1W	191.4W
Maximum power voltage	18.0V	19.8V	17.6V	16.5V
Maximum power current	6.3A	5.8A	8.7A	11.6A
Open circuit voltage	24.0V	23.8V	21.1V	20.0V
Short circuit current	7.6A	6.2A	9.3A	12.3A
Operating temperature range	0 to 85°C	0 to 85°C	0 to 85°C	0 to 85°C
Cell type	Amorphous	SunPower®	SunPower®	SunPower®
Minimum solar regulator size	SRPA0120	SRPA0120	SRPA0240	SRPA0240
Dimensions opened (L x W)	1860 x 1185mm	1080 x 930mm	1405 x 930mm	1720 x 930mm
Dimensions closed (L x W x H)	400 x 280 x 100mm	310 x 310 x 65mm	310 x 310 x 75mm	310 x 310 x 90mm
Weight	4.8kg	4.5kg	6.0kg	7.2kg

## Monocrystalline Portable Folding Solar Panel specifications

	SMPA120	SMPA160
Peak power output*	120.0W	160.0W
Maximum power voltage	17.8V	17.8V
Maximum power current	6.7A	9.0A
Open circuit voltage	22.3V	22.3V
Short circuit current	7.3A	9.7A
Operating temperature range	-40 to 85°C	-40 to 85°C
Cell type	Monocrystalline	Monocrystalline
Minimum solar regulator size	SRPA0120	SRPA0240
Dimensions opened (L x W)	1010 x 770 x 35mm	1010 x 1005 x 35mm
Dimensions closed (L x W x H)	505 x 770 x 80mm	505 x 1005 x 80mm
Weight	12.0kg	16.0kg

## Monocrystalline Solar Panel specifications

	SMR1050	SMR1080	SMR1120	SMR1150	SMR1150SL
Peak power output*	50.0W	80.0W	120.0W	150.0W	150.0W
Maximum power voltage	18.0V	18.0V	18.5V	18.5V	18.5V
Maximum power current	2.8A	4.5A	6.5A	8.1A	8.1A
Open circuit voltage	22.2V	22.3V	22.5V	22.5V	22.2V
Short circuit current	3.0A	4.8A	7.2A	8.8A	8.8A
Operating temperature range	-40 to 85°C	-40 to 85°C	-40 to 85°C	-40 to 85°C	-40 to 85°C
Cell type	Monocrystalline	Monocrystalline	Monocrystalline	Monocrystalline	Monocrystalline
Minimum solar regulator size	SRP0120	SRP0120	SRP0120	SRP0240	SRP0240
Dimensions (L x W x H)	645 x 540 x 35mm	963 x 540 x 35mm	963 x 808 x 35mm	1210 x 808 x 35mm	1480 x 670 x 35mm
Weight	4.5kg	6.5kg	9.5kg	11.0kg	12.0kg

\* Actual peak power output will vary according to atmospheric conditions and temperature.

Visit [redarc.com.au](http://redarc.com.au) for more information.  
The REDARC solar range is available at your nearest auto electrician or 4WD specialty store.

Want to know more?

Scan this QR code with your smartphone to go to the REDARC website



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