200W & 250W SOLAR PANELS FEATURING TWIN CELL TECHNOLOGY

SPHERE TWIN CELL SOLAR TECHNOLOGY IS THE FUTURE OF SOLAR POWER GENERATION FOR THE CARAVANNING AND RV MARKET.

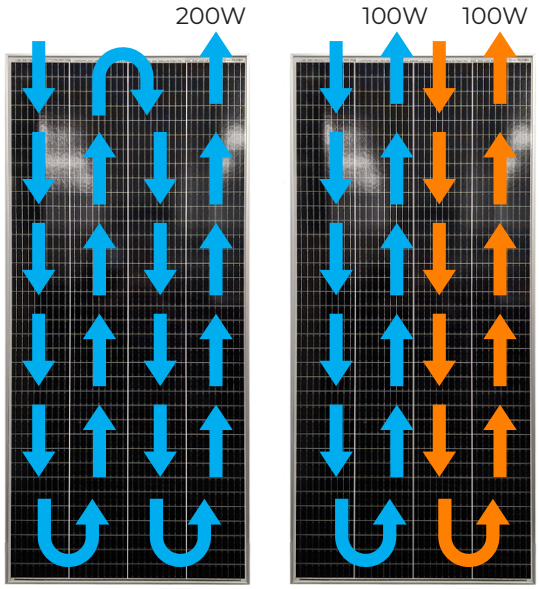
Researched and developed in Australia, Sphere Twin Cell Technology is an innovative solution to the common issue of partial shading that affects caravan and RV solar power applications.

Partial shading caused by roof top mounted accessories such as air conditioners, roof vents and satellites can result in severe bottlenecks for conventional solar panels. When even a small section of a traditional panel is covered by shade, a blockage is created that drastically reduces overall output.

Sphere Twin Cell Technology helps reduce the impact of partial shading by allowing a single large solar panel to operate as if it were two smaller panels with isolated circuit paths. This unique parallel design allows each side of the panel to function independently from the other.

When one half of a panel is covered by shade, the other will still perform at full capacity. Where partial shading will have already stopped traditional mono-crystalline panels from providing vital power, Sphere Solar Panels with Twin Cell Technology will keep on charging.

Standard Cell Panels vs Twin Cell Technology



Gerenic 200w solar panel

Sphere 200w solar panel

SPHERE TWIN CELL ADVANTAGE

Sphere Solar Panels with Twin Cell Technology continue producing up to 100-125w when shaded up to 50%.

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FEATURES

- **Sphere Twin Cell Solar Technology for improved performance in partial shade.**
- **Improved cell efficiency enabling 200W from a 180W footprint.**
- **By-passed diodes to improve reliability and further minimize power drops caused by shade.**
- **An anodized aluminium frame to withstand rust with pre drilled mounting holes for a versatile range of applications.**
- **Antireflective, high transparency tempered glass for durability**
- **IP65 rated junction box provides complete protection against dust and water.**

SPECIFICATIONS		500-06250	500-06252
Electricity Performance	Standard Test Conditions	1000W/M2,1.5AM,25	
	Peak Power Output (W)	200 W	250W
	Power Output Tolerance(%)	+3%	+-3%
	Maximum Power Voltage (V)	20.6	20.61
	Maximum Power Current (A)	9.71	12.13
	Short Circuit Current (A)	9.85	12.35
	Open Circuit Voltage (V)	24.1	24.1
	Maximum System Voltage	1000V/DC	1000V/DC
Mechanical Performance	Junction Box Type	0.9 m 4mm 2 solar cable fitted with MC 4 IP65	
	Number of Cells	4*18 72pcs	4*18 72pcs
	Module Size (mm)	670*1480*35*30*1.2	670*1850*35*30*1.2
	Module Net Weight	11 KG	14KG
Temperature Coefficient	Working Temperature	-40 ~ 85 °C	-40 ~ 85°C
	Power TK	-0.45%/°C	-0.45%/°C
	Open Circuit Voltage T	-0.33%/°C	-0.33%/°C
	Short Circuit Current T	0.045%/°C	0.045%/°C
	Test temperature	25±2 °C	25±2°C
Guarantee of power output	<10 Years	>90%	
	<25 Years	>80%	
	Material Warranty	12 Months	

Results achieved under standard test conditions

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