

Solar Power System Checklist

In today's market there are many different brands of Solar Power Systems. These vary immensely in terms of the quality of materials used and efficiencies.

The following checklist will help you determine a quality, reliable and high performance product which is suited for Australian conditions.

Feature	Superior Solar			Other
RECS	All Superior Solar products have the highest REC value for their category	RECS is an independent value assigned according to the systems specifications – Higher the RECS the greatest performance, lowest CO2 emissions and lowest running costs		
Tailored for your home	Individual site assessment for maximum exposure to the sun thru out the year	Positioning of the panels including orientation angles are critical to achieving maximum performance from your investment. We use the Solar Path Finder to accurately plot sun & shade thru out the year to determine the best position.		
Solar Panels	Aluminium frame 46 mm thick	Double wall dimensions adding to rigidity and long life which adds to extra strength when panel gets mounted t the rail		
	Three bypass diodes	This extra diode allows greater flexibility of the panel to continue operating in shady conditions.		
	Manufacturing	High standards of quality control by established European companies		
	Toughened glass	This ensures your panels are less prone to damage from impact of foreign debris		
	Low iron glass	This is low reflective glass allowing maximum amount of sun to penetrate		
	Warranty	5 year production warranty in addition to 12 and 25 yr output warranty		
	Sealant	High quality sealant thru out the solar panel keeping circuitry and solar cells water & air tight ensuring no damage from condensation and corrosion.		
Inverters	European Inverters	High efficiency, low noise, Long Life “TL” Transformer less Inverter (98% efficient). Long term reputation of the brand		
Mounting Systems	German Rail & Sun Top 3 mounting systems	German Rail & Sun Top 3 mounting systems (AS 1170) which passes category 3 cyclone test, made of 316 Marine grade Stainless Steel Tile Brackets & Extruded aluminium, (no tile		

		penetrations for fixings & no cutting of sarking)		
Installation	New Gross F.I.T meter	Our installation includes the new Gross F.I.T meter installed on the same day that we put the panels on the roof, so you can start producing income from the solar power immediately.	✓	
	Safety	We earth “every” roof rail for safety back to the meter box for safety & all products enclosures etc used external are IP65 rated.	✓	
	Protection devices	European, heavy quality, DC circuit breakers	✓	
	Cable sizing	System Design for cable sizing ensures under 2% loss (5% is AS standard). This part of the installation cost is considerably more than using cables sized at 5%, but pays back with the additional 3% of system performance.	✓	
	Inter connector cabling	High quality, European ‘MC brand’ cable connectors reducing the chance of hot spots occurring in the wiring and eliminating the risk of fire	✓	
Return on investment	Income produced per year	Take the size of the system 1.5kw & times this by 4. This gives a average daily output figure for the average north shade free roof. $1.5 \times 4 = 6\text{KW/Day}$, take the 6kw/day & times x \$0.60 (Gross FIT) = \$3.6/day or \$1314/year plus EA are kicking in a extra 10% at the moment which takes this to \$1445	✓	
	Time to recover initial investment	Take the \$5990 purchase price & divide by the \$1445 yearly return & the system takes 4.15 years to recover the initial investment.	✓	
Service	After sales service	Superior Solar is locally owned & based so that we can provide the highest possible service standard or installation with a full guarantee.	✓	
FREE onsite consultation & quote	We will provide a FREE onsite consultation and review your plans or existing house. The system we tailor will suit your individual house, available roof area and your budget.		✓	

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