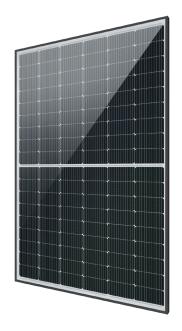
SOLAR POWER PANELS



SOLAHART SUNCELL®

N-TYPE RESIDENTIAL PANELS

SOLAHART440R1





The new high-performance Solahart SunCell® panel not only offers great value, but it's also custom-designed and built to Solahart's strict quality specifications.

With an attractive black frame design, this panel is easy to install and maintain, and is well suited to Australian roof designs. Solahart SunCell® also ticks all the boxes on durability, it has passed endurance testing of up to three times more cycles than the international standard, making it an ideal solution in Australia's harsh conditions.

The state-of-the-art n-type, monocrystalline half-cell and super multi-busbar design offers excellent performance under Australian conditions, on hot summer days, and even in low-light environments. The exceptional 30 year Performance Warranty assures at least 89.4% of nominal power at 25 years and at least 87.4% at 30 years.

Every Solahart system is backed by a trusted Solahart Australia Warranty that offers the advantage of local on-the-ground support to deliver true peace of mind. With more than 70 years of solar experience and over 60 Dealerships across Australia, we're here for the long haul.

How you benefit:



Latest n-type technology and quality construction for excellent performance in Australian conditions.



Innovative half-cell technology with excellent power efficiency that results in more energy production per square metre.



HIGH PERFORMANCE

High energy produced per panel means you pay less for electricity generated.



VALUE FOR MONEY

Cost-effective panel solution for a high return on your investment.



SOLAHART WARRANTY

25-Year Solahart Product Warranty for peace of mind, plus, 30-Year Performance Guarantee for long term returns.*

TECHNICAL DATA



	SOLAHART440R1	
ndard Test Conditions (STC) ⁽¹⁾		
	440 Wp)
	14.30 A	
	38.80 V	
NACT(T)	22.5%	
mal operating conditions, NMO1		
	11.54 A	
	36.85 V	
	10.78 A	
	30.67 V	
	SOLAHART440R1	
	25 years	
	30 years	
	China	
	Performance Guarantee	
1722 x 1134 x 30 mm (including frame)		
· ·	100% 99%	
	97.4%	■ Solahart SunCell n-type ■ Typical p-type
	95.4%	93.4%
	98% 95.8%	91.4%
	90% 93.1%	89.4%
·	At least 99% of nominal power during the	90.3%
3	first year. Thereafter max 0.4% degradation per year. At least 89.4% of nominal power up	04.00
Protection class IP68, with bypass diodes	to 25 years and 87.4% up to 30 years.	
4 mm ² solar cable; (+) 1200 mm, (-) 1200 mm	0 1 5 10 YEARS	15 20 25
Stäubli MC4 EVO2 connectors (PV-KST4 EVO 2 & PV-KBT4 EVO 2)	All data within measure	ment tolerances.
nts	Dimensions - Measurements in mm	
41±2°C	1134 mm 8-Ф5.5 mm	30 mm A-A
-0.29%/°C	Ground hole	
-0.25%/°C	8-9 mm x 14 mm	
+0.043%/°C	Mounting hole	33 mm
ificates		
IEC 61730: 2016, Application class II.		1722 mm
Design		I 172
1500 V		19.5 mm 9 mm
25 A	1006 mm	
3600 / 1600 Pa	1000 111111	—- <u> </u> [<u>-</u>]
5400 / 2400 Pa	16-3.5 mm x 8.5 mm,	
	1722 x 1134 x 30 mm (including frame) 21.3 Kg 3.2 mm White Black 6 x 18 monocrystalline solar half-cells 3 Protection class IP68, with bypass diodes 4 mm² solar cable; (+) 1200 mm, (-) 1200 mm Stäubli MC4 EVO2 connectors (PV-KST4 EVO 2 & PV-KBT4 EVO 2) nts 41±2°C -0.29%/°C -0.25%/°C +0.043%/°C tificates ; IEC 61730: 2016, Application class II. Design	### Action Action ### Actio

Specifications and designs included in this data sheet are subject to change without notice.

 $^{(1)}1000 \text{ W/m}^2, 25\pm2^{\circ}\text{C, AM 1.5 G.} \\ ^{(2)}\text{Measurement tolerances P_{MPP}} \pm 3 \text{ %; Isc, Voc} \pm 5 \text{ % at STC.} \\ ^{(3)}800 \text{ W/m}^2, \text{NMOT, spectrum AM 1.5 G.} \\ ^{(2)}\text{Measurement tolerances P_{MPP}} \pm 3 \text{ %; Isc, Voc} \pm 5 \text{ % at STC.} \\ ^{(3)}800 \text{ W/m}^2, \text{NMOT, spectrum AM 1.5 G.} \\ ^{(2)}\text{Measurement tolerances P_{MPP}} \pm 3 \text{ %; Isc, Voc} \pm 5 \text{ % at STC.} \\ ^{(3)}\text{NMOT, spectrum AM 1.5 G.} \\ ^{(2)}\text{Measurement tolerances P_{MPP}} \pm 3 \text{ %; Isc, Voc} \pm 5 \text{ % at STC.} \\ ^{(3)}\text{NMOT, spectrum AM 1.5 G.} \\ ^{(3)}\text{Measurement tolerances P_{MPP}} \pm 3 \text{ %; Isc, Voc} \pm 5 \text{ % at STC.} \\ ^{(3)}\text{NMOT, spectrum AM 1.5 G.} \\ ^{(3)}\text{Measurement tolerances P_{MPP}} \pm 3 \text{ %; Isc, Voc} \pm 5 \text{ % at STC.} \\ ^{(3)}\text{NMOT, spectrum AM 1.5 G.} \\ ^{(3)}\text{Measurement tolerances P_{MPP}} \pm 3 \text{ %; Isc, Voc} \pm 5 \text{ % at STC.} \\ ^{(3)}\text{NMOT, spectrum AM 1.5 G.} \\ ^{(3)}\text{Measurement tolerances P_{MPP}} \pm 3 \text{ %; Isc, Voc} \pm 5 \text{ % at STC.} \\ ^{(3)}\text{NMOT, spectrum AM 1.5 G.} \\ ^{(3)}\text{Measurement tolerances P_{MPP}} \pm 3 \text{ %; Isc, Voc} \pm 5 \text{ % at STC.} \\ ^{(3)}\text{NMOT, spectrum AM 1.5 G.} \\ ^{(3)}\text{Measurement tolerances P_{MPP}} \pm 3 \text{ %; Isc, Voc} \pm 5 \text{ % at STC.} \\ ^{(3)}\text{NMOT, spectrum AM 1.5 G.} \\ ^{(3)}\text{Measurement tolerances P_{MPP}} \pm 3 \text{ %; Isc, Voc} \pm 5 \text{ % at STC.} \\ ^{(3)}\text{NMOT, spectrum AM 1.5 G.} \\ ^{(3)}\text{Measurement tolerances P_{MPP}} \pm 3 \text{ %; Isc, Voc} \pm 5 \text{ % at STC.} \\ ^{(3)}\text{Measurement tolerances P_{MPP}} \pm 3 \text{ %; Isc, Voc} \pm 5 \text{ % at STC.} \\ ^{(3)}\text{NMOT, spectrum AM 1.5 G.} \\ ^{(3)}\text{Measurement tolerances P_{MPP}} \pm 3 \text{ %; Isc, Voc} \pm 5 \text{ % at STC.} \\ ^{(3)}\text{NMOT, spectrum AM 1.5 G.} \\ ^{(3)}\text{Measurement tolerances P_{MPP}} \pm 3 \text{ %; Isc, Voc} \pm 5 \text{ % at STC.} \\ ^{(3)}\text{Measurement tolerances P_{MPP}} \pm 3 \text{ %; Isc, Voc} \pm 5 \text{ % at STC.} \\ ^{(3)}\text{NMOT, spectrum AM 1.5 G.} \\ ^{(3)}\text{Measurement tolerances P_{MPP}} \pm 3 \text{ %; Isc, Voc} \pm 3 \text{$

^{* 25-}year Solahart Product Warranty covers certain defects with the Solahart SunCell* solar panels. Please refer to the 'Solahart PV Systems Owner's Guide' for full details, available on Solahart's website www.solahart.com.au. 30-year Performance Guarantee is provided by the manufacturer of the Solahart SunCell* solar panels and guarantees the maximum reduction in power output performance of the panels over a 30-year period. Neither the Solahart Product Warranty nor the Performance Guarantee are intended to exclude, restrict or modify your rights under the Australian Consumer Law.