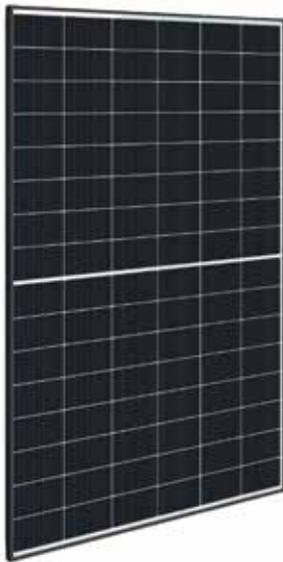


SOLAHART SUNCELL N-TYPE BIFACIAL RESIDENTIAL PANELS

SOLAHART440BR3



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.

This new model boosts panel efficiency to up to 22%, and with positive tolerance of up to 3%, guarantees that each SunCell panel will have a rated maximum power on or above 440W at Standard Test Conditions.⁽¹⁾

The state-of-the-art n-type, bifacial and zero-busbar design offers excellent performance under Australian conditions, on hot summer days and even in low-light environments.

Dual-glass design enhances the safety with Class A Fire rating and is more resilient to micro-cracks. Overall, it makes the panels more reliable and long lasting.

The exceptional 30 year Performance Guarantee assures at least 87.4% of nominal power 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:



DURABLE DESIGN

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



HIGH SOLAR YIELD

Excellent low-light and temperature behaviour results in more energy production per square metre of panels.



HIGH PERFORMANCE

High efficiency (22%) and lower degradation for excellent performance and reliability.



DESIGNED FOR AUSTRALIA

Designed for Australia to perform in all conditions, from low-light environment to high temperatures.



SOLAHART WARRANTY

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

Model		SOLAHART440BR3	
Mechanical Data		Performance Guarantee	
Dimensions (H x W x D)	1762 x 1134 x 30 mm (including frame)		
Weight	24.5 kg		
Front / Back Glass	2.0 mm front and 2.0 mm back glass with anti-reflection technology		
Frame	Black Anodised Aluminium		
Cell	6 x 16 n-type solar half-cells		
Junction Box	Protection class IP68, with bypass diodes		
Cable	4 mm ² solar cable; (+) 1200 mm, (-) 1200 mm		
Connector	Stäubli MC4 EVO2A connectors (PV-KST4 EVO 2A & PV-KBT4 EVO 2A)		
Electrical Data			
	Minimum performance at standard test conditions, STC ⁽¹⁾ (Power Sorting 0 - +3%)	Minimum performance at normal operating conditions, BNP ⁽²⁾	Electrical characteristics with 10% Bifacial Gains
Power at MPP ⁽²⁾ - P _{MPP}	440 Wp	484.9 Wp	484 Wp
Short circuit current ⁽²⁾ - I _{sc}	15.47 A	17.13 A	17.02 A
Open circuit voltage ⁽²⁾ - V _{oc}	36.09 V	36.10 V	36.10 V
Current at MPP [#] - I _{MPP}	14.64 A	16.12 A	16.10 A
Voltage at MPP [#] - V _{MPP}	30.06 V	30.07 V	30.06 V
Efficiency ⁽¹⁾ - η	22.0%		
Other information			
Part Number	SOLAHART440BR3		
Solahart Product Warranty*	30 years		
Performance Guarantee*	30 years		
Country of Manufacture	China		
Temperature Coefficients		Dimensions - Measurements in mm	
Temperature coefficient of P _{MPP} - γ	-0.29 % / °C		
Temperature coefficient of V _{oc} - β	-0.25 % / °C		
Temperature coefficient of I _{sc} - α	+0.043 % / °C		
Qualifications and Certificates			
IEC 61215: 2021; IEC 61730: 2023, Application class II.			
Properties for System Design			
Maximum system voltage - V _{dc}	1500 V		
Maximum series fuse rating	30 A		
Maximum design load, Push / Pull	3600 / 1600 Pa		
Maximum test load, Push / Pull	5400 / 2400 Pa		
Safety class	II		
Fire rating based on UL 790	Class A		
Bifaciality(ØPmax/ØIsc)	80% ± 5%		
Bifaciality(ØVoc)	98% ± 5%		

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

⁽¹⁾1000 W/m², 25±2°C, AM 1.5 G. ⁽²⁾Measurement tolerances P_{MPP} ±3%; I_{sc} ±4%; V_{oc} ±3% at STC. ⁽³⁾Irradiance front 1000 W/m², rear 135 W/m², Cell Temperature 25 deg C, AM=1.5. # Typical values, actual values may differ.

* 30-year Solahart Product Warranty covers certain defects with the Solahart SunCell 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 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.