

SOLAR POWER PANELS



SOLAHART SUNCELL PLUS

N-TYPE BIFACIAL COMMERCIAL PANELS

SOLAHART500BH3



The new high-performance n-type bifacial Solahart SunCell® Plus panel is not only great value but it's also custom-designed and built to Solahart's strict quality specifications.

With a high-efficiency rating of 22.5%, proven durability, an attractive black frame and an easy-to-install design, Solahart SunCell® Plus is the ideal solution for both commercial and residential applications.

SunCell Plus comes with industry leading 30 Year Product Warranty and 30 Year Performance Guarantee. 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:



MODERN DESIGN

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



SAFE AND DURABLE

Dual-glass design enhances fire rating and is more resilient to micro-cracks for high durability.



HIGH PERFORMANCE

High efficiency (22.5%) and lower degradation for excellent performance and reliability.



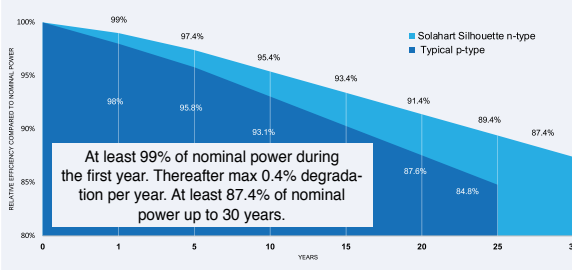
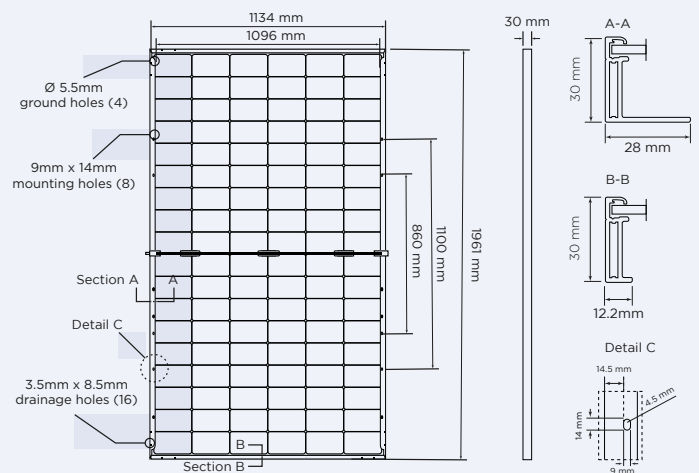
DESIGNED FOR AUSTRALIA

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	SOLAHART500BH3		
Mechanical Data		Performance Guarantee	
Dimensions (H x W x D)	1961 x 1134 x 30 mm (including frame)		 At least 99% of nominal power during the first year. Thereafter max 0.4% degradation per year. At least 87.4% of nominal power up to 30 years. All data within measurement tolerances.
Weight	26.9 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 18 n-type monocrystalline solar half-cells		
Junction Box	Protection class IP68, with bypass diodes		
Cable	4 mm² 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 +/-5W)	Minimum performance at normal operating conditions, BNPI ⁽³⁾	Electrical characteristics with 10% Bifacial Gains
Power at MPP ⁽²⁾ - P _{MPP}	500 Wp	551 Wp	550 Wp
Short circuit current ⁽²⁾ - I _{sc}	15.52 A	17.27 A	17.07 A
Open circuit voltage ⁽²⁾ - V _{oc}	40.89 V	40.90 V	40.89 V
Current at MPP [#] - I _{MPP}	14.70 A	16.19 A	16.17 A
Voltage at MPP [#] - V _{MPP}	34.02 V	34.03 V	34.02 V
Efficiency ⁽¹⁾ - η	22.5 %		
Other information			
Part Number	SOLAHART500BH3		
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 Plus 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 Plus 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.