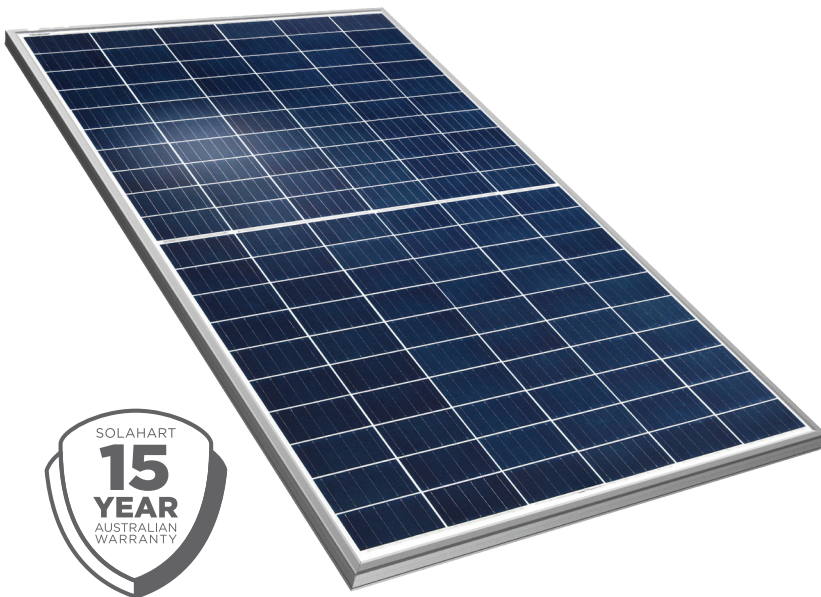


SOLAR POWER PANELS



SUNCELL PLUS COMMERCIAL SOLAR PANELS

SOLAHART450C1



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

With a high efficiency rating of 20.7%, proven durability and easy-to-install design, Solahart SunCell-Plus is the ideal solution for commercial applications.

Reliable silicone connections ensure excellent stability and durability.

Other features include genuine Stäubli MC4 EVO2 connectors to maintain a reliable connection and a sealed junction box that offers protection from water and corrosion.

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 almost 70 years of solar experience and over 60 Dealerships across Australia, we're here for the long haul.

How you benefit:



DURABLE DESIGN

Blending state of the art technology and quality construction for excellent performance under real-world conditions.



HIGH SOLAR YIELD

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

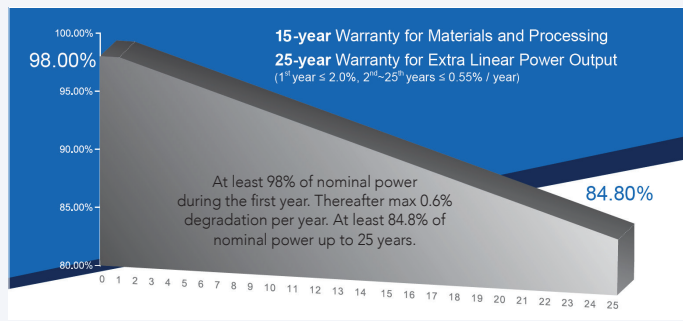
Cost-effective panel solution for a high return on your investment.



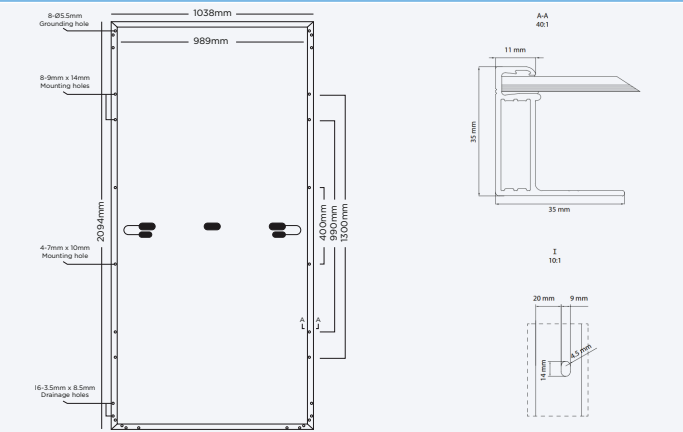
SOLAHART WARRANTY

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

| Model | | SOLAHART450C1 | |
|---|---|--|---------------|
| Electrical Data | | | |
| Minimum performance at standard test conditions, STC ⁽¹⁾ (Power Tolerance +5 W / -0 W) | | | |
| Power at MPP ⁽²⁾ - P _{MPP} | | | 450 Wp |
| Short circuit current - I _{sc} | | | 11.37 A |
| Open circuit voltage - V _{oc} | | | 49.05 V |
| Current at MPP - I _{MPP} | | | 10.89 A |
| Voltage at MPP - V _{MPP} | | | 41.32 V |
| Efficiency ⁽¹⁾ - η | | | 20.7% |
| Minimum performance at normal operating conditions, NMOT ⁽³⁾ | | | |
| Power at MPP - P _{MPP} | | | 334.5 Wp |
| Short circuit current - I _{sc} | | | 9.16 A |
| Open circuit voltage - V _{oc} | | | 45.94 V |
| Current at MPP - I _{MPP} | | | 8.72 A |
| Voltage at MPP - V _{MPP} | | | 38.37 V |
| Other Information | | | |
| Part Number | | | SOLAHART450C1 |
| Solahart Product Warranty* | | | 15 years |
| Performance Guarantee* | | | 25 years |
| Country of Manufacture | | | China |
| Mechanical Data | | Performance Guarantee | |
| Dimensions (H x W x D) | 2094 x 1038 x 35 mm (including frame) | | |
| Weight | 23.5 Kg | | |
| Glass thickness | 3.2 mm | | |
| Backsheet | White | | |
| Frame | Silver Anodised Aluminium | | |
| Cell | 6 x 24 monocrystalline solar half-cells | | |
| Number of diodes | 3 | | |
| Junction box | Protection class IP68, with bypass diodes | | |
| Cable | 4 mm ² solar cable; (+) 1300 mm, (-) 1300 mm | | |
| Connector | Stäubli MC4 EVO2 connectors (PV-KST4 EVO 2 & PV-KBT4 EVO 2) | | |
| Temperature Coefficients | | Dimensions - Measurements in mm | |
| Normal module operating temp (NMOT) | 41±2°C | | |
| Temp coefficient of P _{MPP} - γ | -0.35%/°C | | |
| Temp coefficient of V _{oc} - β | -0.28%/°C | | |
| Temp coefficient of I _{sc} - α | +0.035%/°C | | |
| Qualifications and Certificates | | | |
| IEC 61215: 2016; IEC 61730: 2016, Application class II. | | | |
| Properties for System Design | | | |
| Max system voltage - V _{sys} | 1500 V | | |
| Max reverse current - I _r | 20 A | | |
| Max design load, Push/Pull | 3600 / 1600 Pa | | |
| Max test load, Push/Pull | 5400 / 2400 Pa | | |
| Fire rating based on IEC/UL | Class C / TYPE 4 | | |



All data within measurement tolerances.



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}, V_{oc} ±5 % at STC. ⁽³⁾800 W/m², NMOT, spectrum AM 1.5 G. * Typical values, actual values may differ.

*15-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. 25-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 25-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.