

## SUNCELL PLUS COMMERCIAL SOLAR PANELS

SOLAHART460H2



The new high-performance Solahart SunCell-Plus panel is not only great value but it's also custom-designed and built to Solahart's strict quality specifications. Offering positive tolerance of up to 5W ensures that each SunCell-Plus panel will have a rated maximum power on or above 460W at Standard Test Conditions (STC)<sup>(1)</sup>.

With a high-efficiency rating of 21.3%, 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. 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 70 years of solar experience and over 60 Dealerships across Australia, we're here for the long haul.

### How you benefit:



#### RELIABLE 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.



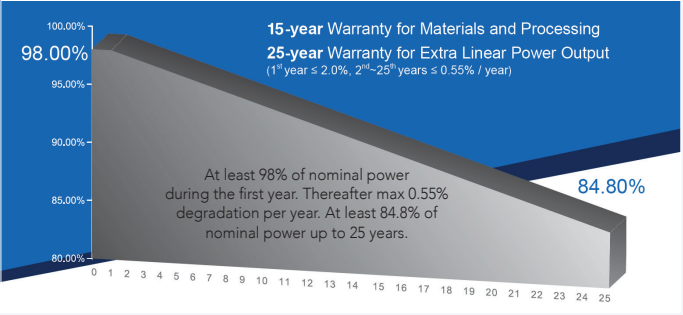
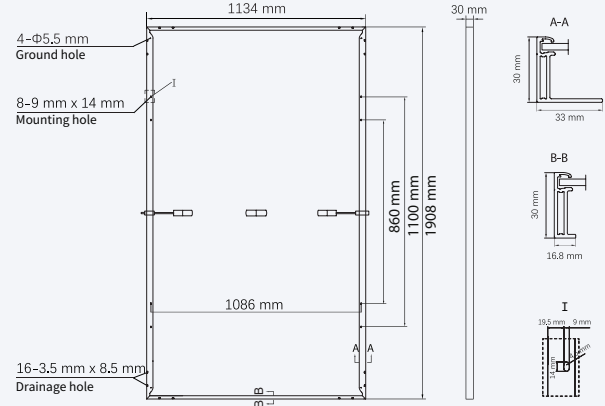
#### VALUE FOR MONEY

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   |   | SOLAHART460H2                          |  |
|---|---|--|--|
| <b>Electrical Data</b>  |   |  |  |
| Minimum performance at standard test conditions, STC <sup>(1)</sup> (Power Tolerance +5 W / -0 W)                                   |   |  |  |
| Power at MPP <sup>(2)</sup> - P <sub>MPP</sub>  |   | 460 Wp                                 |  |
| Short circuit current - I <sub>sc</sub>   |   | 13.91 A                                |  |
| Open circuit voltage - V <sub>oc</sub>  |   | 41.85 V                                |  |
| Current at MPP - I <sub>MPP</sub>   |   | 13.08 A                                |  |
| Voltage at MPP - V <sub>MPP</sub>   |   | 35.17 V                                |  |
| Efficiency <sup>(1)</sup> - η   |   | 21.3%                                  |  |
| Minimum performance at normal operating conditions, NMOT <sup>(3)</sup>   |   |  |  |
| Power at MPP - P <sub>MPP</sub>   |   | 343.8 Wp                               |  |
| Short circuit current - I <sub>sc</sub>   |   | 11.29 A                                |  |
| Open circuit voltage - V <sub>oc</sub>  |   | 39.55 V                                |  |
| Current at MPP - I <sub>MPP</sub>   |   | 10.49 A                                |  |
| Voltage at MPP - V <sub>MPP</sub>   |   | 32.78 V                                |  |
| <b>Other Information</b>  |   |  |  |
| Part Number   |   | SOLAHART460H2                          |  |
| Solahart Product Warranty*  |   | 15 years                               |  |
| Performance Guarantee*  |   | 25 years                               |  |
| Country of Manufacture  |   | China                                  |  |
| <b>Mechanical Data</b>  |   | <b>Performance Guarantee</b>           |  |
| Dimensions (H x W x D)  | 1908 x 1134 x 30 mm (including frame)                       |  |  |
| Weight  | 23.9 Kg   |  |  |
| Glass thickness   | 3.2 mm  |  |  |
| Backsheet   | White   |  |  |
| Frame   | Black Anodised Aluminium                                    |  |  |
| Cell  | 6 x 20 monocrystalline solar half-cells                     |  |  |
| Number of diodes  | 3   |  |  |
| Junction box  | Protection class IP68, with bypass diodes                   |  |  |
| Cable   | 4 mm <sup>2</sup> solar cable; (+) 1300 mm, (-) 1300 mm     |  |  |
| Connector   | Stäubli MC4 EVO2 connectors (PV-KST4 EVO 2 & PV-KBT4 EVO 2) |  |  |
| <b>Temperature Coefficients</b>   |   | <b>Dimensions - Measurements in mm</b> |  |
| Normal module operating temp (NMOT)   | 41±2°C  |  |  |
| Temp coefficient of P <sub>MPP</sub> - γ  | -0.34%/°C   |  |  |
| Temp coefficient of V <sub>oc</sub> - β   | -0.25%/°C   |  |  |
| Temp coefficient of I <sub>sc</sub> - α   | +0.04%/°C   |  |  |
| <b>Qualifications and Certificates</b>  |   |  |  |
| IEC 61215: 2016; IEC 61730: 2016, Application class II.   |   |  |  |
| <b>Properties for System Design</b>   |   |  |  |
| Max system voltage - V <sub>sys</sub>   | 1500 V  |  |  |
| Max reverse current - I <sub>r</sub>  | 25 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  |  |  |
|  <p>All data within measurement tolerances.</p> |   |  |  |
|   |   |  |  |

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

<sup>(1)</sup>1000 W/m<sup>2</sup>, 25±2°C, AM 1.5 G. <sup>(2)</sup>Measurement tolerances P<sub>MPP</sub> ±3%; I<sub>sc</sub>, V<sub>oc</sub> ±5% at STC. <sup>(3)</sup>800 W/m<sup>2</sup>, NMOT, spectrum AM 1.5 G. \* Typical values, actual values may differ.

\*15-year Solahart Product Warranty covers certain defects with the Solahart SunCell Plus solar panels. Please refer to the 'Solahart PV Systems Owner's Guide' for full details, available on Solahart's website [www.solahart.com.au](http://www.solahart.com.au). 25-year Performance Guarantee is provided by the manufacturer of the Solahart SunCell Plus 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.