

SOLAHART SUNCELL-PLUS COMMERCIAL SOLAR PANEL

SOLAHART450C1

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

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

Reliable silicone connections also ensure excellent stability and durability. Other features include genuine Stäubli MC4 EVO2 connectors to secure a reliable connection and a sealed junction box that offers corrosion protection and water resistance.

The 12-Year Solahart Product Warranty provides ultimate confidence and peace of mind.

State-of-the-art half-cell technology:

For excellent performance under real conditions.

High efficiency:

Optimal yields, more power generated per square metre.

Low electricity generation costs:

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

Efficient, and durable:

Manufactured to specification and only available through Solahart.



HOW YOU BENEFIT



HIGH SOLAR YIELD

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



SAFE OPERATION

Quality components ensure safety and long term performance.



VALUE FOR MONEY

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



TRUSTED WARRANTIES

12-Year Solahart Product Warranty for peace of mind, plus, 25-Year Manufacturer's Performance Guarantee.*

Technical Data

| MODEL | SOLAHART450C1 | | |
|--|---------------|--|--|
| Electrical Data | | | |
| Minimum performance at standard test conditions, STC ⁽¹⁾ (Power Tolerance +5 W / -0 W) | | | |
| Power at MPP ⁽²⁾ - PMPP | 450 Wp | | |
| Short circuit current - Isc | 11.37 A | | |
| Open circuit voltage - Voc | 49.05 V | | |
| Current at MPP - IMPP | 10.89 A | | |
| Voltage at MPP - VMPP | 41.32 V | | |
| Efficiency ⁽¹⁾ - η | 20.7% | | |
| Minimum performance at normal operating conditions, NMOT ⁽³⁾ | | | |
| Power at MPP - PMPP | 334.5 Wp | | |
| Short circuit current - Isc | 9.16 A | | |
| Open circuit voltage - Voc | 45.94 V | | |
| Current at MPP - IMPP | 8.72 A | | |
| Voltage at MPP - VMPP | 38.37 V | | |
| (1)1000 W/m², 25±2°C, AM 1.5 G. (2)Measurement tolerances PMPP ±3 %; lsc, Voc ±5 % at STC. (3)800 W/m², NMOT, spectrum AM 1.5 G. * Typical values, actual values may differ. | | | |

| Other Information | | |
|---------------------------------------|---------------|--|
| Part Number | SOLAHART450C1 | |
| Solahart Product Warranty* | 12 years | |
| Manufacturer's Performance Guarantee* | 25 years | |
| Country of Manufacture | China | |

| Mechanical Data | | |
|------------------------|--|--|
| 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 mm² solar cable; (+) 1300 mm, (-) 1300 mm | |
| Connector | Stäubli MC4 EVO2 connectors (PV-KST4 EVO 2 & PV-KBT4 EVO 2) | |



Thereafter max 0.6% degradation per year.

At least 84.8% of nominal power up to 25 years.

All data within measurement tolerances.

| Temperature Coefficients | |
|--|------------|
| Normal module operating temperature (NMOT) | 41±2°C |
| Temperature coefficient of PMPP - γ | -0.35%/°C |
| Temperature coefficient of V _{oc} - β | -0.28%/°C |
| Temperature coefficient of I _{sc} - α | +0.035%/°C |

| Properties for System Design | |
|----------------------------------|------------------|
| Maximum system voltage - Vsys | 1500 V |
| Maximum reverse current - IR | 20 A |
| Maximum design load, Push / Pull | 3600 / 1600 Pa |
| Maximum test load, Push / Pull | 5400 / 2400 Pa |
| Fire rating based on IEC / UL | Class C / TYPE 4 |
| | |

Qualifications and Certificates IEC 61215: 2016; IEC 61730: 2016, Application class II.

Dimensions - Measurements in mm 1038 mm 8-95.5mm Grounding hole 8-9 mm x 14 mm Mounting hole 4-7 mm x 10 mm Mounting hole 10-3.5 mm x 8.5 mm Drainage hole 35 mm

Licence Holder and Importer:

Solahart Industries Pty Ltd., 1 Alan St. Rydalmere, NSW 2116, Australia.

*For full details see Solahart Owner's Guide & Installation Instructions.

