

SOLAHART SUNCELL-PLUS Commercial Solar Panel

SOLAHART445C1

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 20.5%, 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.



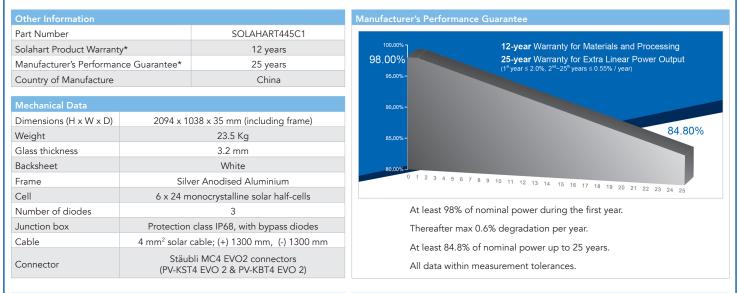
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12-Year Solahart Product Warranty for peace of mind, plus, 25-Year Manufacturer's Performance Guarantee.*

Technical Data

MODEL	SOLAHART445C1	
Electrical Data		
Minimum performance at standard test conditions, STC ⁽¹⁾ (Power	Tolerance +5 W / -0 W)	
Power at MPP ⁽²⁾ - PMPP	445 Wp	
Short circuit current - Isc	11.30 A	
Open circuit voltage - Voc	48.80 V	
Current at MPP - IMPP	10.84 A	
Voltage at MPP - VMPP	41.05 V	
Efficiency ⁽¹⁾ - η	20.5%	
Minimum performance at normal operating conditions, NMOT ⁽³⁾		
Power at MPP - PMPP	330.8 Wp	
Short circuit current - Isc	9.10 A	
Open circuit voltage - Voc	45.70 V	
Current at MPP - IMPP	8.68 A	
Voltage at MPP - VMPP	38.12 V	

101000 W/m², 25±2°C, AM 1.5 G. ¹²Measurement tolerances PMP ±3 %; Isc, Voc ±5 % at STC. ¹³800 W/m², NMOT, spectrum AM 1.5 G. [#] Typical values, actual values may differ.



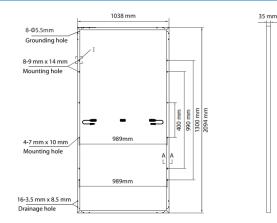
Temperature Coefficients	
Normal module operating temperature (NMOT)	41±2°C
Temperature coefficient of PMPP - Y	-0.35%/°C
Temperature coefficient of Voc - β	-0.28%/°C
Temperature coefficient of Isc - α	+0.035%/°C

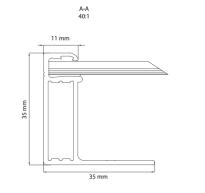
Properties for System Design		
Maximum system voltage - Vsys	1500 V	
Maximum reverse current - IR	20 A	
Maximum design load, Push / Pull	3600 / 1600 Pa	
Maximum test load, Push / Pull	5400 / 2400 Pa	
Fire rating based on IEC / UL	Class C / TYPE 4	

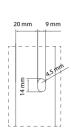
Qualifications and Certificates

IEC 61215: 2016; IEC 61730: 2016, Application class II.

Dimensions - Measurements in mn







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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.

Specifications and designs included in this data sheet are subject to change without notice. **Solahart Australia** 1300 769 475 | www.solahart.com.au Reorder code: SHDS/PV_SH445_SUNCP IH0113_Solahart SunCell Plus Solar Panel_445W_June 2021