

# SOLAHART SUNCELL-PLUS COMMERCIAL SOLAR PANEL

#### SOLAHART455C1

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 20.9%, 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

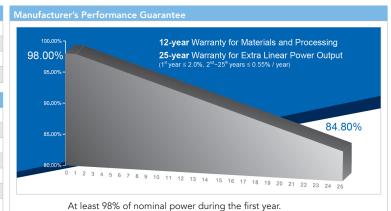
12-Year Solahart Product Warranty for peace of mind, plus, 25-Year Manufacturer's Performance Guarantee.\*

#### **Technical Data**

MODEL	SOLAHART455C1		
Electrical Data	ectrical Data		
Minimum performance at standard test co	num performance at standard test conditions, STC <sup>(1)</sup> (Power Tolerance +5 W / -0 W)		
Power at MPP <sup>(2)</sup> - PMPP	455 Wp		
Short circuit current - Isc	11.44 A		
Open circuit voltage - Voc	49.35 V		
Current at MPP - IMPP	10.96 A		
Voltage at MPP - VMPP	41.51 V		
Efficiency <sup>(1)</sup> - η	20.9%		
Minimum performance at normal operating conditions, NMOT <sup>(3)</sup>			
Power at MPP - PMPP	338.2 Wp		
Short circuit current - Isc	rcuit current - Isc 9.22 A		
Open circuit voltage - Voc	46.22 V		
Current at MPP - IMPP	8.78 A		
Voltage at MPP - VMPP	38.55 V		
(1)1000 W/m², 25±2°C, AM 1.5 G. (2)Measurement tolerances PMPP ±3 %; Isc, Voc ±5 % at STC. (3)800 W/m², NMOT, spectrum AM 1.5 G. # Typical values, actual values may differ.			

Other Information		
Part Number	SOLAHART455C1	
Solahart Product Warranty*	12 years	
Manufacturer's Performance Guarantee*	25 years	
Country of Manufacture	China	

Mechanical Data			
Dimensions (H x W x D)			
Weight	23.5 Kg		
Glass thickness	3.2 mm		
Backsheet	White		
Frame	Silver Anodised Aluminium  6 x 24 monocrystalline solar half-cells		
Cell			
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.

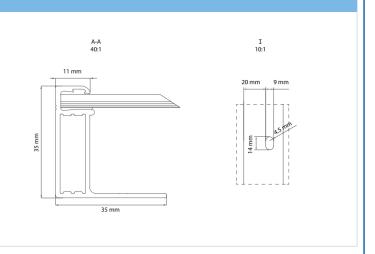
All data within measurement tolerances.

Temperature Coefficients		
Normal module operating temperature (NMOT)	41±2°C	
Temperature coefficient of PMPP - γ	-0.35%/°C	
Temperature coefficient of V <sub>oc</sub> - β	-0.28%/°C	
Temperature coefficient of I <sub>sc</sub> - 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 I	mm	
8-Ф5.5mm Grounding hole 8-9 mm x 14 mm Mounting hole	1038 mm	35 mm
4-7 mm × 10 mm Mounting hole	989mm A A A J	2094 mm
16-3.5 mm x 8.5 mm Drainage hole		



#### 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.

