

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.

The 15-Year Solahart Product Warranty provides ultimate confidence and peace of mind.

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.



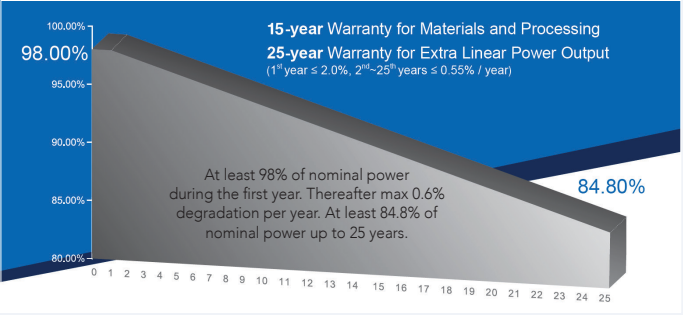
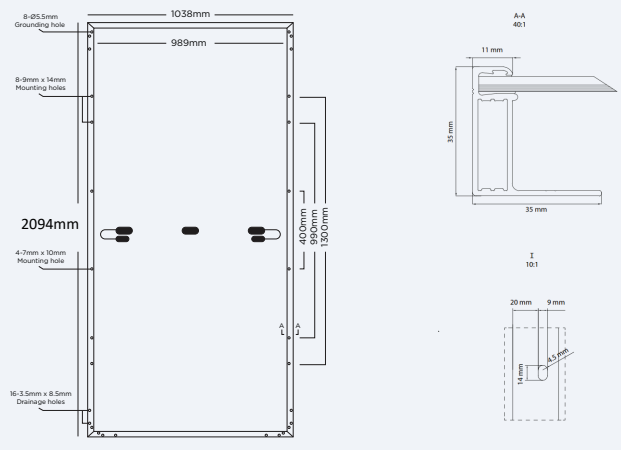
VALUE FOR MONEY

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 Manufacturer's Performance Guarantee.*

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
Manufacturer's Performance Guarantee*			25 years
Country of Manufacture			China
Mechanical Data		Manufacturer's 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		
			
			

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.

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