

SOLAHART SUNCELL-PLUS Commercial Solar Panel

SOLAHART415C1

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.



HIGH EFFICIENCY Panel Technology Offering the Best Value For Money

HEE

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.



Cost-effective panel solution for a high return

on your investment.



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

Technical Data

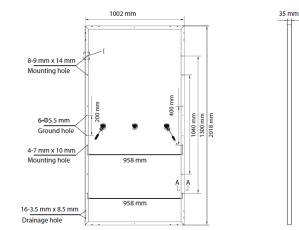
MODEL	SOLAHART415C1					
Electrical Data	rical Data					
Minimum performance at standard test conditions, STC ⁽¹⁾ (Power Tolerance +5 W / -0 W)						
Power at MPP ⁽²⁾ - PMPP	415 Wp					
Short circuit current - Isc	10.45 A					
Open circuit voltage - Voc	50.06 V					
Current at MPP - IMPP	9.86 A					
Voltage at MPP - VMPP	42.11 V					
Efficiency ⁽¹⁾ - η	20.5%					
Minimum performance at normal operating conditions, NMOT ⁽³⁾						
Power at MPP - PMPP	308.5 Wp					
Short circuit current - Isc	8.42 A					
Open circuit voltage - Voc	46.88 V					
Current at MPP - IMPP	7.89 A					
Voltage at MPP - VMPP	39.08 V					

Other Information			Manufacturer's Perform	mance Guarantee	
Part Number		SOLAHART415C1			
Solahart Product Warrant	y*	12 years	100.00%	12-year Warranty for Materials and Processing	
Manufacturer's Performance Guarantee*		25 years	98.00%	25-year Warranty for Extra Linear Power Output (1 st year ≤ 2.0%, 2 rd ~25 th years ≤ 0.55% / year)	
Country of Manufacture		China	95.00% -		
Mechanical Data			90.00% -		
Dimensions (H \times W \times D)	2018 x 10	002 x 35 mm (including frame)			
Weight	22.6 Kg		85.00% -	84.80%	
Glass thickness	3.2 mm White Silver Anodised Aluminium				
Backsheet			80.00% -		
Frame			0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25		
Cell	6 x 24 m	onocrystalline solar half-cells			
Number of diodes	3		At least 98	3% of nominal power during the first year.	
Junction box	Protection	class \geq IP67, with bypass diodes	Thereafter max 0.6% degradation per year.		
Cable	4 mm² solar	cable; (+) 1200 mm, (-) 1200 mm	At least 84.8% of nominal power up to 25 years. All data within measurement tolerances.		
Connector		oli MC4 EVO2 connectors 74 EVO 2 & PV-KBT4 EVO 2)			

	Temperature Coefficients	
	Normal module operating temperature (NMOT)	44±2°C
	Temperature coefficient of PMPP - Y	-0.35%/°C
Temperature coefficient of V _{oc} - β		-0.28%/°C
Temperature coefficient of Isc - α		+0.04%/°C
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Properties for System Design				
1500 V				
20 A				
3600 / 1600 Pa				
5400 / 2400 Pa				
II				
Class C / TYPE 1				

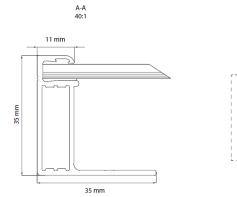
IEC 61215: 2016; IEC 61730: 2016, Application class II.

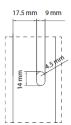


Licence Holder and Importer: Solahart Industries Pty Ltd., 1 Alan St. Rydalmere, NSW 2116, Australia.

*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_SH415_SUNCP IH0113_SOLAHART SUNCELL PLUS SOLAR PANEL_415W_Dec 2020





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