

# SOLAHART SILHOUETTE SOLAR PANELS

**SOLAHART315** 

The new high-performance Solahart Silhouette panel, with stylish black appearance, is the ideal solution for Australian homes thanks to its innovative and premium cell technology.

The state-of-the-art PERC monocrystalline half-cell and six-busbar design was developed to achieve excellent performance under real conditions, even with low radiation intensity and on clear, hot summer days.

The black anodised aluminium frame has been built to withstand extreme weather conditions, including high winds, and reliable silicone connections ensure excellent stability and durability.

Other features include optimally positioned drainage holes to protect against frost damage, premium MC4 connecting plugs to secure a reliable connection, and a sealed junction box that offers corrosion protection and water resistance.

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

For excellent performance under real conditions.

# Innovative all-weather technology:

Optimal yields, whatever the weather.

# Low electricity generation costs:

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

## Stylish, efficient, and durable:

Designed in Germany, manufactured in Korea and only available through Solahart.



✓ riigh reliability
✓ low degradation
✓ frequent
product surveillance

ID 40032587





WITH A TOUCH OF CLASS AND A STRIKING BLACK FINISH

### **HOW YOU BENEFIT**



#### HIGH SOLAR YIELD

Innovative all-weather technology with excellent low-light and temperature behaviour results in more energy production per square metre.



#### **HIGH PERFORMANCE**

Long-term yield security with anti-LID technology, anti-PID Technology<sup>^</sup>, Hot-Spot Protect and Solahart Quality Auditing.



#### **EXTREME WEATHER RATING**

High-tech aluminium alloy frame, certified for high wind loads and snow loads.



#### TRUSTED WARRANTIES

Enjoy a 12-year Solahart product warranty and a 25-year manufacturer's performance guarantee, for peace of mind.\*

#### **Technical Data**

MODEL	SOLAHART315
Electrical Data	
Minimum performance at standard test co	onditions, STC <sup>(1)</sup> (Power Tolerance +5 W / -0 W)
Power at MPP <sup>(2)</sup> - PMPP	315 Wp
Short circuit current <sup>(2)</sup> - I <sub>sc</sub>	9.89 A
Open circuit voltage <sup>(2)</sup> - Voc	40.29 V
Current at MPP# - IMPP	9.41 A
Voltage at MPP# - VMPP	33.46 V
Efficiency <sup>(1)</sup> - η	≥18.7 %
Minimum performance at normal operatin	g conditions, NMOT <sup>(3)</sup>
Power at MPP - PMPP	235.3 Wp
Short circuit current# - Isc	7.97 A
Open circuit voltage# - Voc	37.91 V
Current at MPP# - IMPP	7.41 A
Voltage at MPP# - VMPP	31.76 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	SOLAHART315
Solahart Warranty*	12 years
Country of Manufacture	Korea

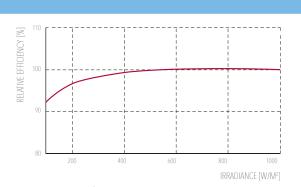
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At least 98% of nominal power during the first year. Thereafter max 0.54% degradation per year.

At least 93.1% of nominal power up to 10 years.

At least 85% of nominal power up to 25 years.

All data within measurement tolerances.



Typical panel performance under low irradiance conditions in comparison to STC conditions (  $25^{\circ}$ C,  $1000 \text{ W/m}^{2}$ ).

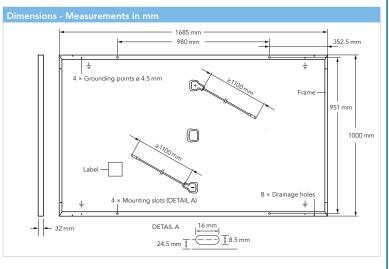
Temperature Coefficients	
Normal module operating temperature (NMOT)	43±3 °C
Temperature coefficient of PMPP - γ	-0.36 % / °C
Temperature coefficient of V <sub>oc</sub> - β	-0.27 % / °C
Temperature coefficient of $I_{sc}$ - $\alpha$	+0.04 % / °C

#### Qualifications and Certificates

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

-40°C up to +85°C
1000 V
20 A
3600 / 2667 Pa
5400 / 4000 Pa
II
С

Mechanical Data	
Dimensions (H x W x D)	1685 x 1000 x 32 mm (including frame)
Weight	18.7 Kg
Front Cover	3.2 mm thermally pre-stressed glass with anti-reflection technology
Back Cover	Composite film
Frame	Black Anodised Aluminium
Cell	6 x 20 monocrystalline solar half-cells
Junction Box	Protection class ≥ IP67, with bypass diodes
Cable	4 mm² solar cable; (+) 1100 mm, (-) 1100 mm
Connector	Stäubli MC4 connectors (PV-KST4 & PV-KSB4), IP68



#### 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. ^APT test conditions according to IEC/TS 62804-1:2015, method B (-1500 V, 168 h).

