The new high-performance Solahart 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 cell 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.

**Solahart Black 295W Solar Panels**

**SOLAHART295BLK**

The new high-performance Solahart 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 cell 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 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.

**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®, Hot-Spot Protect and Solahart Quality Auditing.

**Extreme weather rating**
High-tech aluminium alloy frame, certified for high wind loads and tested in Australia to resist the phenomenal pressures of 1 in 500-year cyclones.

**Solahart warranty**
Enjoy a 12-year product warranty and a superior 25-year manufacturer’s performance guarantee, for peace of mind.*
**Technical Data**

**Model**

SOLAHART295BLK - 295W SOLAR PANEL

### Mechanical Data

- **Dimensions (H x W x D):** 1670 x 1000 x 32 mm (including frame)
- **Weight:** 18.5 Kg
- **Front Cover:** 3.2 mm thermally pre-stressed glass with anti-reflection technology
- **Back Cover:** Composite film
- **Frame:** Black Anodised Aluminium
- **Junction Box:** Protection class ≥ IP67, with bypass diodes
- **Cable:** 4 mm² solar cable; (+) 1000 mm, (-) 1000 mm
- **Connector:** Multi-Contact MC4, IP68

### Electrical Data

- **Minimum performance at standard test conditions, STC** (Power Tolerance +5 W / -0 W)
  - Power at MPP - PMPP: 295 Wp
  - Short circuit current - Isc: 9.70 A
  - Open circuit voltage - Voc: 39.48 V
  - Efficiency - η: ≥17.7

- **Minimum performance at normal operating conditions, NMOT**
  - Power at MPP - PMPP: 220.1 Wp
  - Short circuit current - Isc: 7.82 A
  - Open circuit voltage - Voc: 37.14 V
  - Current at MPP - IMPP: 9.17 A
  - Voltage at MPP - VMPP: 32.19 V

### Temperature Coefficients

- **Normal module operating temperature (NMOT):** 43 ± 3 °C
- **Temperature coefficient of PmPP (PMPP):** -0.39 % / K
- **Temperature coefficient of Voc (Voc):** -0.28 % / K
- **Temperature coefficient of Isc (Isc):** +0.04 % / K

### Qualifications and Certificates

- **VDE Quality tested, IEC 61215:2016; IEC 61730:2016, Application class A.**
- **This datasheet complies with DIN EN 50380.**

### Manufacturer’s performance Guarantee

- **Relative Efficiency Compared to Nominal Power [%]:**
  - 0 to 5 years: At least 98% of nominal power during the first year. Thereafter max 0.6 % degradation per year.
  - 5 to 10 years: At least 92.6% of nominal power up to 10 years.
  - 10 to 25 years: All data within measurement tolerances.

### Properties for System Design

- **Permitted module temperature on continuous duty:** -40°C up to +85°C
- **Maximum system voltage:** - Vsys: 1000 V
- **Maximum reverse current:** - Ir: 20 A
- **Maximum design load, Push / Pull:** 3600 / 2667 Pa
- **Maximum test load, Push / Pull:** 5400 / 4000 Pa
- **Safety class / Fire rating:** II / C

### Dimensions - Measurements in mm

- **Junction box:** 980 mm x 150 mm x 45 mm
- **Frame:** 145 mm x 95.0 mm
- **Grounding pad:** 24.5 mm x 6.5 mm
- **Drainage hole:** 8 mm

### Other Information

- **Part Number:** SOLAHART295BLK
- **Solahart Warranty:** 12 years
- **Country of Manufacture:** Korea

### 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).