



LG

Life's Good

MonoX™ BLACK

LG255S1K-G3

Clean power from the Australian sun with LG's Mono X™ Black range modules.

The Mono X™ benefits from LG's years of research and development and our commitment to long lasting products of high quality.

Our Mono X™ Black gives you an aesthetic pleasing appearance and will provide decades of clean, reliable energy. Choosing LG's state-of-the-art Mono X™ Black module is an investment in superior standards of design, manufacture, back up support and warranties.



Long Lasting Warranties

The Mono X™ support warranties include a 10 year product warranty and a linear 25 year output warranty. The linear output warranty guarantees a minimum power output of 80.2% after 25 years. Because it's LG – these top class warranties give you peace of mind.



Designed for Durability

LG solar modules are designed with durable glass to be light in weight (17.3 kg) while also being able to withstand heavy loads and external pressure up to 5400 Pa.



Positive Power Tolerance

LG provides rigorous quality testing to all solar modules to ensure the rated power output. Our Mono X™ modules have a positive nominal tolerance starting at 0% and going as high as +3%.



Highest Testing Standards

After a rigorous process, LG's product durability testing laboratory has earned certification from both TÜV Rheinland and UL (Underwriters Laboratories), a first in the solar industry.



LG Sign-Off on Every Cell

LG is proud to sign-off on every single manufactured solar cell with our LG brand. The LG logo reflects cutting edge technology and durability standards which have guided LG for over 50 years.



Reliable for the future

LG's world-class integrated production processes and quality controls create a solar product that is reliable and long lasting. For example every single LG module is tested via an Electroluminescence inspection. The EL inspection detects any micro cracks unseen by the naked eye.

MonoX™

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Mechanical Properties

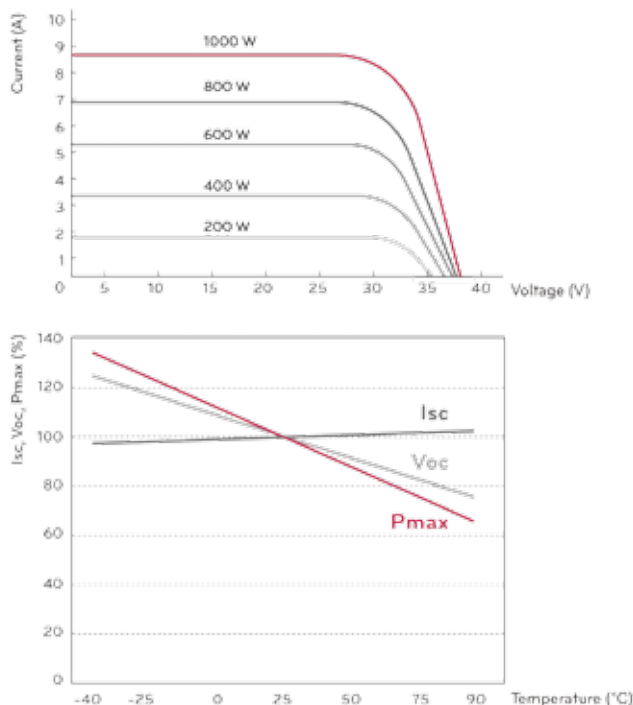
| | |
|------------------------|--|
| Cells | 6 x 10 |
| Cell vendor | LG |
| Cell type | Monocrystalline |
| Cell dimensions | 156 x 156 mm ² |
| # of busbar | 3 |
| Dimensions (L x W x H) | 1640 x 1000 x 35 mm |
| Maximum load (Pa) | 5400 |
| Weight | 17.3 kg |
| Connector type | MC4 connector IP67 |
| Junction box | IP 67 with 3 bypass diodes |
| Length of cables | 2 x 1000 mm |
| Frame | Anodized Aluminum with protective black coating |

Certifications and Warranty

| | |
|---|--|
| Certifications | IEC 61215, IEC 61730-1/-2, IEC 61701, DLG-Fokus Test "Ammonia Resistance", UL 1703, ISO 9001 |
| Product warranty | 10 years |
| Output warranty of Pmax (measurement tolerance ± 3%) | Linear Warranty* |

* 1) 1st year: 97% 2) After 2nd year: 0.7% annual degradation 3) 80.2% after 25 years.

Characteristic Curves



Electrical Properties (STC*)

| LG255S1K-G3 | |
|--------------------------------|----------------------|
| Maximum power at STC (Pmax) | 255 |
| MPP voltage (Vmpp) | 31.0 |
| MPP current (Impp) | 8.24 |
| Open circuit voltage (Voc) | 38.4 |
| Short circuit current (Isc) | 8.72 |
| Module efficiency (%) | 15.5 |
| Operating temperature (°C) | -40 ~ +90 |
| Maximum system voltage (V) | 1000 (IEC), 600 (UL) |
| Maximum series fuse rating (A) | 15 |
| Power tolerance (%) | 0 ~ +3 |

* STC (Standard Test Condition): Irradiance 1000 W/m², module temperature 25 °C, AM 1.5

* The nameplate power output is measured and determined by LG Electronics at its sole and absolute discretion.

Temperature Coefficients

| | |
|------|-------------|
| NOCT | 47.0 ± 2 °C |
| Pmpp | -0.45 %/°C |
| Voc | -0.33 %/°C |
| Isc | 0.05 %/°C |

Dimensions (mm)

