

With LG,
it's all possible.

MonoX™

LG270S1C-A3

60 cell

MonoX™ series are LG Electronics' high-quality monocrystalline module brands. The quality is the result of our strong commitment to developing a module to improve benefits for customers. Features of MonoX™ series include higher efficiency and durability, convenient installation, and aesthetic exterior.



LIGHT AND ROBUST

With a weight of just 16.8 kg (36.96 lb), LG modules are proven to demonstrate outstanding durability against external pressure up to 5400 Pa.



100% EL TEST COMPLETED

All LG modules pass Electroluminescence inspection. This EL inspection detects cracks and other imperfections unseen by the naked eye.



RELIABLE WARRANTIES

LG stands by its products with the strength of a global corporation and sterling warranty policies. LG offers a 10 year product limited warranty and a 25 year limited linear output warranty.



CONVENIENT INSTALLATION

LG modules are carefully designed to benefit installers by allowing quick and easy installations throughout the carrying, grounding, and connecting stages of modules.



THE EXTRA 2% POWER

To minimize losses due to mismatch, LG produces 3 groups of solar modules which are sorted by its current class. This enables MonoX™ to maximize the system's output by around 2% based off the theoretical calculation.



POSITIVE POWER TOLERANCE

LG provides rigorous quality testing to solar modules to assure customers of the stated power outputs of all modules, with a positive nominal tolerance starting at 0%.

About LG Electronics

LG Electronics is a multinational corporation committed to expanding its capacity with solar energy business as its future growth engine. Our a solar energy source research program was launched in 1985, backed by LG Group's rich experience in semi-conductors, LCD, chemistry and electronic materials industry. We successfully released the first MonoX™ series to the market in 2010 which exported to 32 countries in 2 years. In 2013, MonoX™ NeON won "Intersolar Award", which proved its leading innovation in the industry.

MonoX™ LG270S1C-A3

MECHANICAL PROPERTIES

| | |
|------------------------|--|
| Cells | 6 x 10 |
| Cell vendor | LG |
| Cell type | Monocrystalline |
| Cell dimensions | 156 x 156 mm / 6 x 6 in |
| # of busbar | 3 |
| Dimensions (L x W x H) | 1640 x 1000 x 35 mm 64.57 x 39.37 x 1.38 in |
| Static snow load | 5400 Pa / 113 psf |
| Static wind load | 2400 Pa / 50 psf |
| Weight | 16.8 ± 0.5 kg / 36.96 ± 1.1 lb |
| Connector type | MC4 connector IP 67 |
| Junction box | IP 67 with 3 bypass diodes |
| Length of cables | 2 x 1000 mm / 2 x 39.37 in |
| Glass | High transmission tempered glass |
| Frame | Anodized aluminum |

CERTIFICATIONS AND WARRANTY

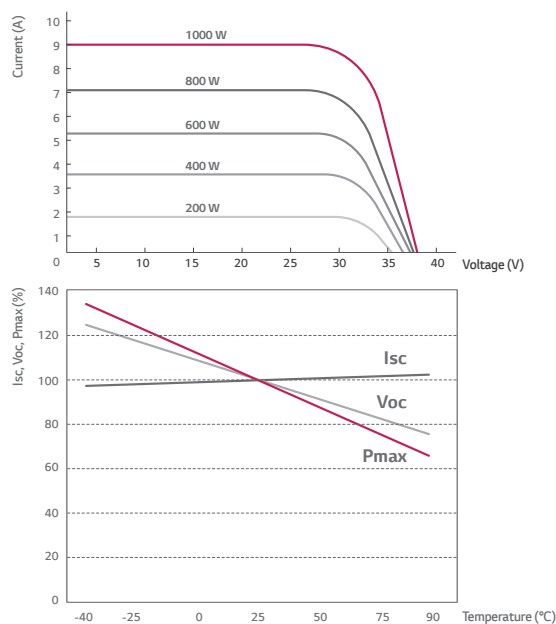
| | |
|---|--|
| Certifications (In Progress) | IEC 61215, IEC 61730-1/-2, IEC 61701, DLG-Fokus Test "Ammonia Resistance", UL 1703, ISO 9001 |
| Product warranty | 10 years |
| Output warranty of Pmax (measurement Tolerance ± 3%) | Linear warranty* |

* 1) 1st year: 97%, 2) After 2nd year: 0.7%p annual degradation, 3) 80.2% for 25 years

TEMPERATURE COEFFICIENTS

| | |
|------|-------------|
| NOCT | 45.0 ± 2 °C |
| Pmpp | -0.43 %/°C |
| Voc | -0.31 %/°C |
| Isc | 0.04 %/°C |

CHARACTERISTIC CURVES



ELECTRICAL PROPERTIES (STC*)

| | LG270S1C-A |
|--------------------------------|----------------------|
| Maximum power at STC (Pmpp) | 270 |
| MPP voltage (Vmpp) | 31.5 |
| MPP current (Impp) | 8.58 |
| Open circuit voltage (Voc) | 38.5 |
| Short circuit current (Isc) | 9.17 |
| Module efficiency (%) | 16.5 |
| 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

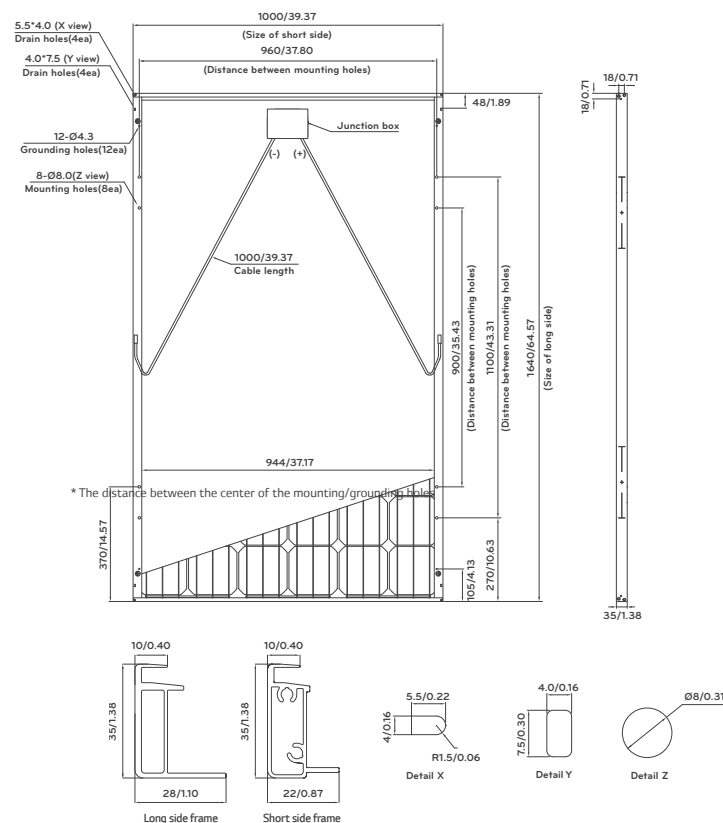
* The nameplate power output is measured and determined by LG Electronics at its sole and absolute discretion.

ELECTRICAL PROPERTIES (NOCT*)

| | LG270S1C-A3 |
|--|-------------|
| Maximum power at STC (Pmpp) | 198 |
| MPP voltage (Vmpp) | 29.0 |
| MPP current (Impp) | 6.84 |
| Open circuit voltage (Voc) | 35.7 |
| Short circuit current (Isc) | 7.39 |
| Efficiency reduction (from 1000 W/m² to 200 W/m²) | < 4.5 % |

* NOCT (Nominal Operating Cell Temperature): Irradiance 800 W/m², ambient temperature 20 °C, wind speed 1 m/s

DIMENSIONS (MM/IN)



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