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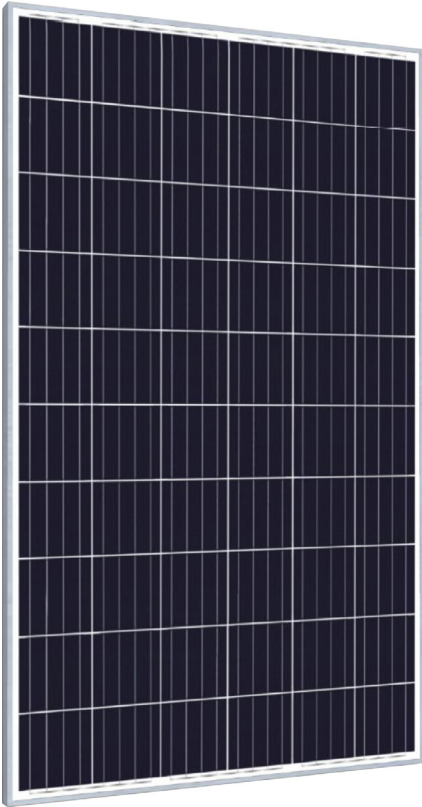
EnergyPal

Solar Panel Guide Specification Data Sheet

G Solar
GSP 260-275W
GSP 270

Also available on the web at
EnergyPal.com/g-solar-solar-panels/gsp-270

260 W - 275 W POLY-CRYSTALLINE SOLAR MODULE



- ✓ High reliability of power output
- ✓ PV glass design improves oblique irradiance performance and enhances module yield in low-light and medium-angle-light condition
- ✓ Junction box and by-pass diodes guarantee the modules free of overheating and “hot spot effect”
- ✓ Strong anodized aluminum alloy frame
- ✓ Certified by TÜV to withstand up to 2400 Pa wind load and up to 5400 Pa snow load
- ✓ Easy installation and minimal maintenance with compatibility to industry standard inverters and mounting systems
- ✓ Special PV Module Insurances by world leading insurance company guarantees the benefit to PV investors and PV module user

QUALIFICATIONS AND CERTIFICATES

CE-Compliant, IEC 61215 (Ed.1) application class A, TÜV Safety Class II, UL 1703



WARRANTY

10 Years: Manufacturing Warranty
 12 Years Warranty: 90% Power Output
 25 Years Warranty: 80% Power Output

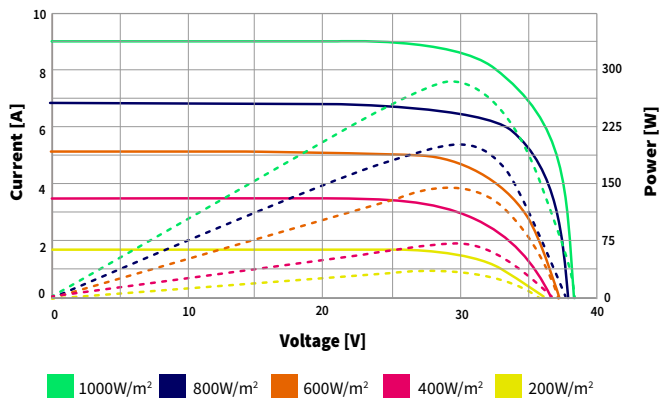
MECHANICAL CHARACTERISTICS

| | |
|--------------------------|--|
| Cell type | Poly-crystalline |
| Cell Dimensions | 156.75 × 156.75 mm, half-cut |
| Cell Arrangement | 60 (6 × 10) |
| Weight | 18.5 kg |
| Module Dimensions | 1650 × 992 × 35 mm (also available: 1650 × 992 × 30 mm) |
| Glass | 3.2 mm, high transmission, tempered |
| Connector | MC4 compatible |
| Cable Length | 900 mm |
| Cable Cross-section Size | 4 mm ² |
| No. of Bypass Diodes | 3/6 |

ELECTRICAL CHARACTERISTICS

| SOLAR CELLS | | POLY-CRYSTALLINE 156.75 × 156.75MM 60 PCS. (6×10) – 5 BUS BARS | | | |
|--|---------------------------------|--|--------|---------|--|
| Model | GSP 260 | GSP 265 | GSP270 | GSP 275 | |
| Performance at Standard Test Conditions (STC): 1000 W/m², 25°C, AM 1.5, power tolerance +3 % | | | | | |
| Maximum Power (Pmax) | 260 Wp | 265 Wp | 270 Wp | 275 Wp | |
| Operating Voltage (Vmpp) | 30.6 V | 31.0 V | 31.3 V | 31.7 V | |
| Operating Current (Impp) | 8.50 A | 8.56 A | 8.63 A | 8.69 A | |
| Open-Circuit Voltage (Voc) | 37.9 V | 38.2 V | 38.5 V | 38.7 V | |
| Short-Circuit Current (Isc) | 8.97 A | 9.04 A | 9.09 A | 9.17 A | |
| Module Efficiency | 15.9 % | 16.2 % | 16.5 % | 16.8 % | |
| Performance at Nominal Operating Cell Temperature (NOCT) : 800 W/m², 20°C, AM 1.5, wind speed 1m/s | | | | | |
| Maximum Power (Pmax) | 192 Wp | 196 Wp | 199 Wp | 203 Wp | |
| Operating Voltage (Vmpp) | 28.3 V | 28.7 V | 28.9 V | 29.2 V | |
| Operating Current (Impp) | 6.78 A | 6.83 A | 6.90 A | 6.97 A | |
| Open-Circuit Voltage (Voc) | 35.0 V | 35.2 V | 35.5 V | 35.7 V | |
| Short-Circuit Current (Isc) | 7.26 A | 7.32 A | 7.36 A | 7.42 A | |
| Temperature Coefficient | | | | | |
| Temperature Coefficient at Pmax | - 0.40 % / °C | | | | |
| Temperature Coefficient at Voc | - 0.31 % / °C | | | | |
| Temperature Coefficient at Isc | + 0.06 % / °C | | | | |
| Nominal Operating Cell Temperature | 45 ± 2 °C | | | | |
| Operating conditions | | | | | |
| Maximum System Voltage | DC1000 V (IEC) / DC1500 V (IEC) | | | | |
| Operating Temperature | -40 °C to 85 °C | | | | |
| Maximum Series Fuse | 15 A | | | | |
| Static Loading | 5400 Pa | | | | |
| Conductivity at Ground | ≤ 0.1 Ω | | | | |
| Resistance | ≥ 100 MΩ | | | | |
| Safety Class | II | | | | |

I-V Curves at different irradiance



I-V Curves at different temperature

