

250 W - 270 W POLY-CRYSTALLINE SOLAR MODULE



- ✓ Plus power tolerance to +3% to ensure the 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”
- ✓ 100% EL test before and after lamination, providing higher quality assurance
- ✓ Special PV Module Insurances by world leading insurance company guarantees the benefit to PV investors and PV module users
- ✓ Easy installation and minimal maintenance with compatibility to industry standard inverters and mounting systems
- ✓ Modules certified by TÜV Nord to withstand high level of wind and snow loads (2400 Pa / 5400 Pa), atmospheric impact (Salt-mist corrosion Test, Ammonia Resistance Test), potential induced degradation (PID) test and Carbon footprint assessment

QUALIFICATIONS AND CERTIFICATES

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



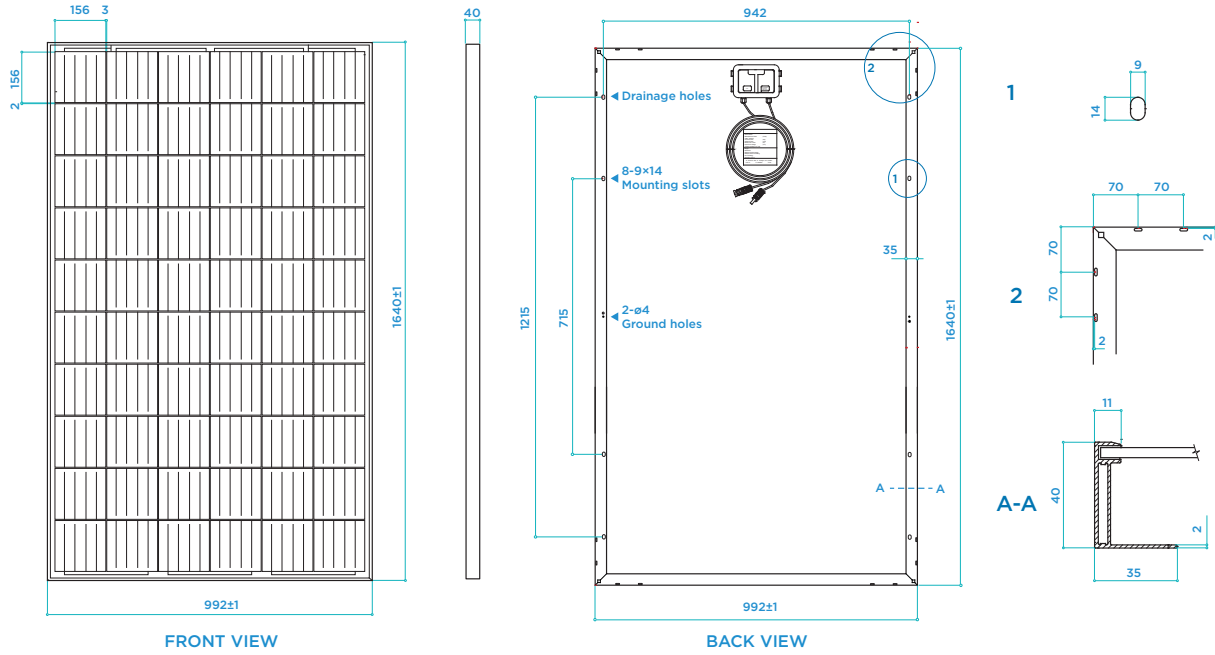
WARRANTY

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

MECHANICAL CHARACTERISTICS

| | |
|--------------------------------------------|-------------------------------------|
| Solar cell type | Poly-crystalline 156 × 156 mm |
| Dimensions | 1640 × 992 × 40 mm |
| Weight | 18 kg |
| Glass | Anti-reflective, low iron, tempered |
| Glass thickness | 3.2 mm |
| Encapsulation | EVA (ethylene vinyl acetate) |
| Back side | White |
| Frame | Anodized aluminium alloy, 6063T5 |
| No of draining holes in frame | 16 |
| Type of connector | MC4 compatible |
| Junction box (Protection degree) | IP 67 |
| Cable type (Cross-sectional area / length) | 4 mm ² / 900 ± 5 mm |

ENGINEERING DRAWINGS

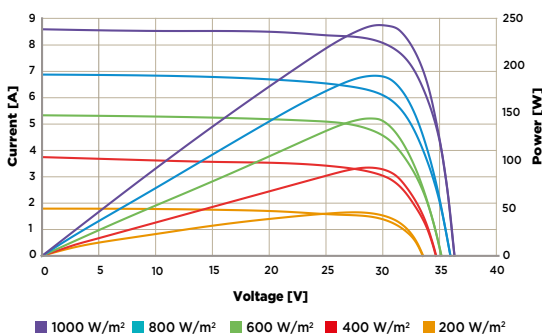


ELECTRICAL CHARACTERISTICS

| SOLAR CELLS | POLY-CRYSTALLINE 156 × 156 MM 60 PCS. (6×10) - 4 BUS BARS | | | | |
|------------------------------------|-----------------------------------------------------------|---------|---------|---------|---------|
| Maximum Power (Pmax) | 250 Wp | 255 Wp | 260 Wp | 265 Wp | 270 Wp |
| Voltage at Pmax (Vmp) | 30.1 V | 30.4 V | 30.5 V | 30.6 V | 31.0 V |
| Current at Pmax (Imp) | 8.31 A | 8.39 A | 8.53 A | 8.66 A | 8.71 A |
| Open-circuit Voltage (Voc) | 37.4 V | 37.5 V | 37.6 V | 37.7 V | 38.1 V |
| Short-Circuit Current (Isc) | 8.83 A | 8.86 A | 8.95 A | 9.03 A | 9.10 A |
| Maximum System Voltage (V DC) | 1000 V (iec), 600 V (UL) | | | | |
| Cell Efficiency | 17.46 % | 17.81 % | 18.16 % | 18.51 % | 18.86 % |
| Module Efficiency | 15.40 % | 15.70 % | 16.00 % | 16.30 % | 16.60 % |
| Number of By-pass Diodes | 6 | | | | |
| Maximum Series Fuse | 15 A | | | | |
| Temperature Coefficient of Pmax | - 0.45 % / °C | | | | |
| Temperature Coefficient of Voc | - 0.34 % / °C | | | | |
| Temperature Coefficient of Isc | - 0.05 % / °C | | | | |
| Nominal Operating Cell Temperature | 47 ± 2 °C | | | | |

IV - CURVES

Current-Voltage and Power-Voltage Curve (260)



TEST PARAMETERS

| | |
|-------------------------------|----------------------------------|
| Dielectric Insulation Voltage | 6,000 V DC max |
| Operating Temperature | -40 °C to 85 °C |
| Max Load | 5,400 Pa |
| Hailstone Impact | 25 mm (1 inch) at 23 m/s (50mph) |