



Technical manual

ELERIX SOLAR PANEL

Poly crystalline Solar Module
285Wp



www.elerix.com

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EXS-285P-S

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285Wp



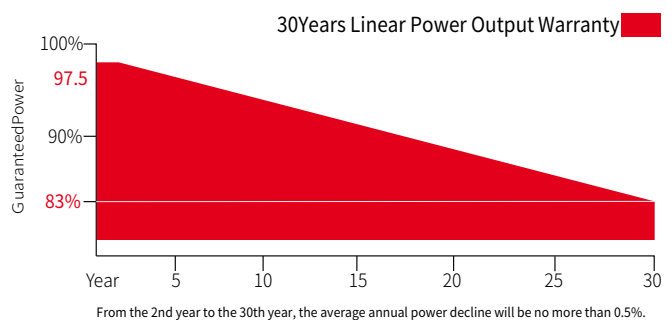
ELERIX Poly crystalline Solar Module 285Wp

Features

- ▶ Excellent module efficiency up to 17.5% by using high efficient polycrystalline solar cells 156x156mm
- ▶ Outstanding performance at low irradiance above 96.3%
- ▶ Heavy snow load up to 5400 Pa and wind load up to 3800Pa
- ▶ IP65 or 67 junction box is available for long term weather endurance
- ▶ Salt mist, ammonia and blowing sand resistance, apply to seaside, farm and desert areas
- ▶ Positive power tolerance up to 5w
- ▶ Selective materials and rigid process effectively control Potential Induced Degradation (PID)
- ▶ Total quality control and complete traceability of Material by Shop Floor Control (SFC)

Warranty

- ▶ 12 Years Product Workmanship Warranty
- ▶ 12 Years Minimum 92% Power Output
- ▶ 30 Years Minimum 83% Power Output



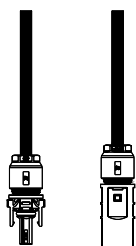
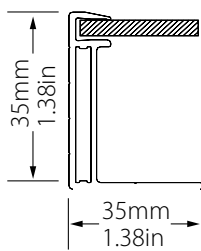
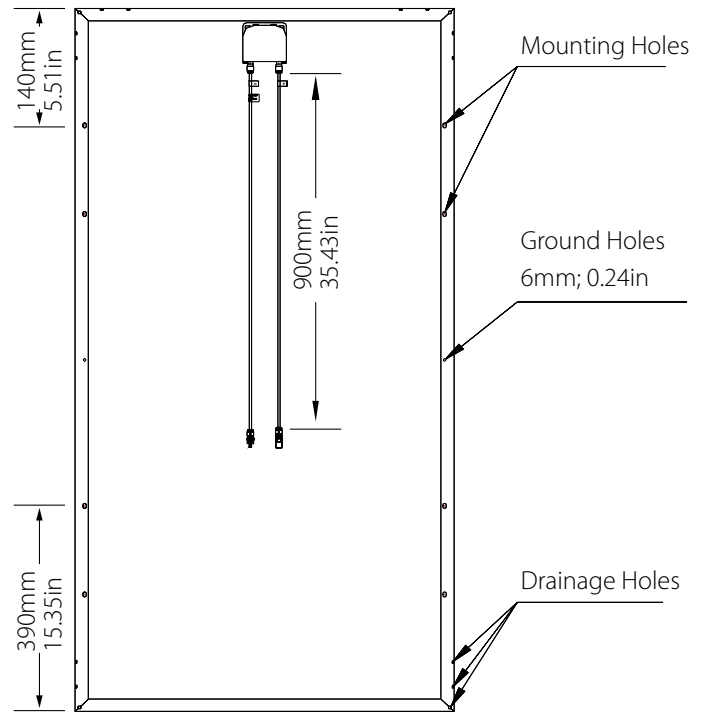
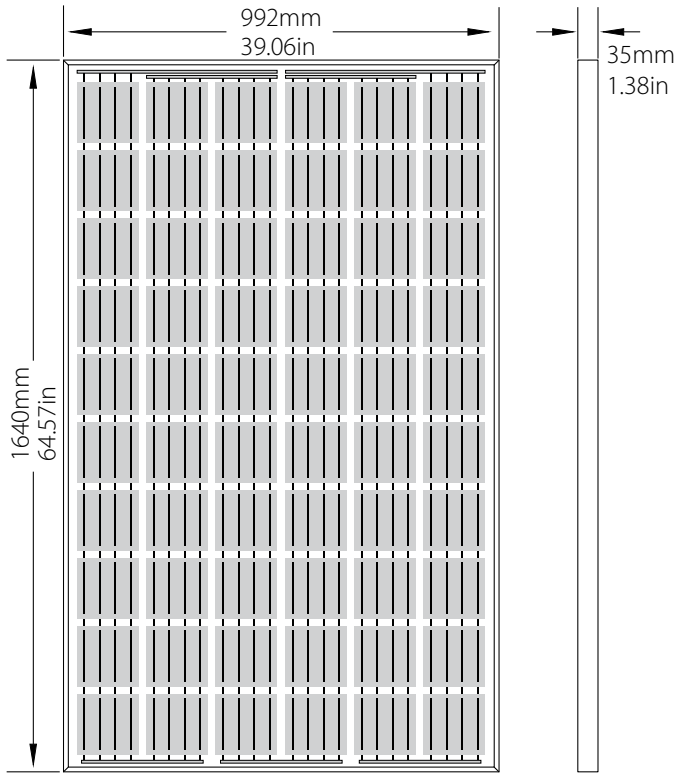
Certification



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| Electrical Specification | EXS-285P-S |
|-----------------------------|-------------------------|
| Maximum Power (Pmax) | 285W |
| Module Efficiency | 17.5% |
| Open Circuit Voltage (Voc) | 38.3V |
| Short Circuit Current (Isc) | 9.49A |
| Maximum Power Voltage (Vmp) | 31.5V |
| Maximum Power Current (Imp) | 9.05A |
| Maximum System Voltage | 1000V (TUV) / 600V (UL) |
| Maximum Series Fuse Rating | 15A |
| Power Tolerance | 0~+5W |

Standard Test Conditions (STC) of irradiance of 1000 W/m², spectrum AM 1.5 and cell temperature of 25°C.
The NOCT is obtained under the Test Conditions: 800W/m², 20°C ambient temperature, AM 1.5 Spectrum, 1m/s wind speed.

| Mechanical Specification | |
|----------------------------------|-------------------------------------|
| Module Dimension (mm) | 1640 × 992 × 35 |
| Cell Dimension (mm) | 156 × 156 |
| Number of Cell 60 | (6 × 10) |
| Glass Thickness (mm) | 3.2 |
| Weight (kgs) | 17.5 |
| Maximum Load (TUV) (Pascal) | 5400 |
| Junction Box and Cable connector | IP65 or IP 67 rated; MC4 compatible |

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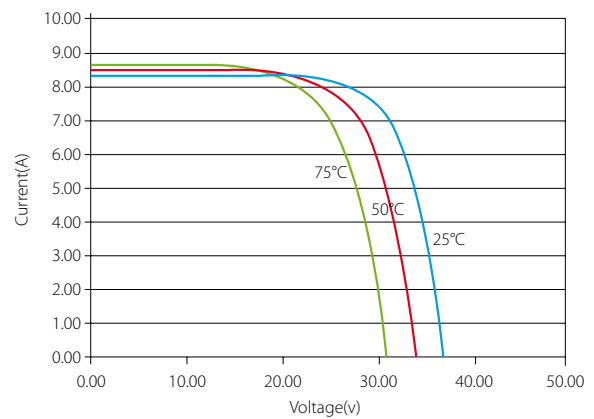
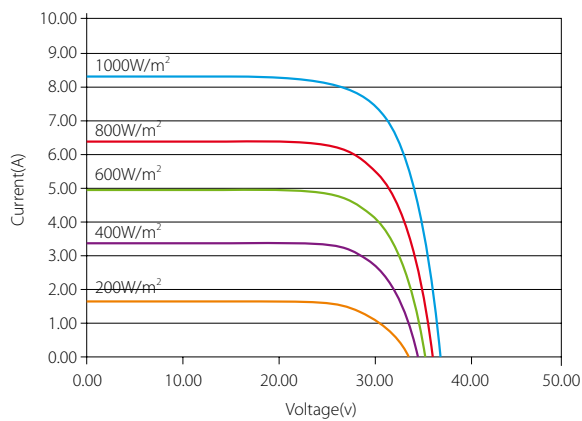


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Temperature Characteristics

| | |
|---|-------------|
| Nominal Operating Cell Temperature (NOCT) | 45 +/- 2 °C |
| Temperature Coefficient (Pmax) | -0.41% / °C |
| Temperature Coefficient (Voc) | -0.32% / °C |
| Temperature Coefficient (Isc) | 0.05% / °C |
| Operating Temperature | -40~85 °C |

IV Curve



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