



Technical manual

ELERIX SOLAR PANEL

Off Grid Small Size Modules
180Wp



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EXS-180M-S

ELERIX SOLAR PANEL

Off Grid Small Size Modules
ESM 180Wp



ELERIX Off Grid Small Size Modules 180Wp

Features

- ▶ High efficient mono-crystalline cells connected in series
- ▶ Superior manufacturing technology to meet high standard of module conversion efficiency
- ▶ IP65 or 67 water proof 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 delivers high power generation
- ▶ Selective materials and rigid process effectively control Potential Induced Degradation (PID)
- ▶ Total quality control and complete traceability of Material by Shop Floor Control (SFC)
- ▶ Outstanding electrical performance under high temperature

Warranty

- ▶ 10 Years for Product Workmanship and Materials
- ▶ 25 Years Power Performance:
 - 12 Years for 90% Minimum Power Output
 - 25 Years for 80% Minimum Power Output

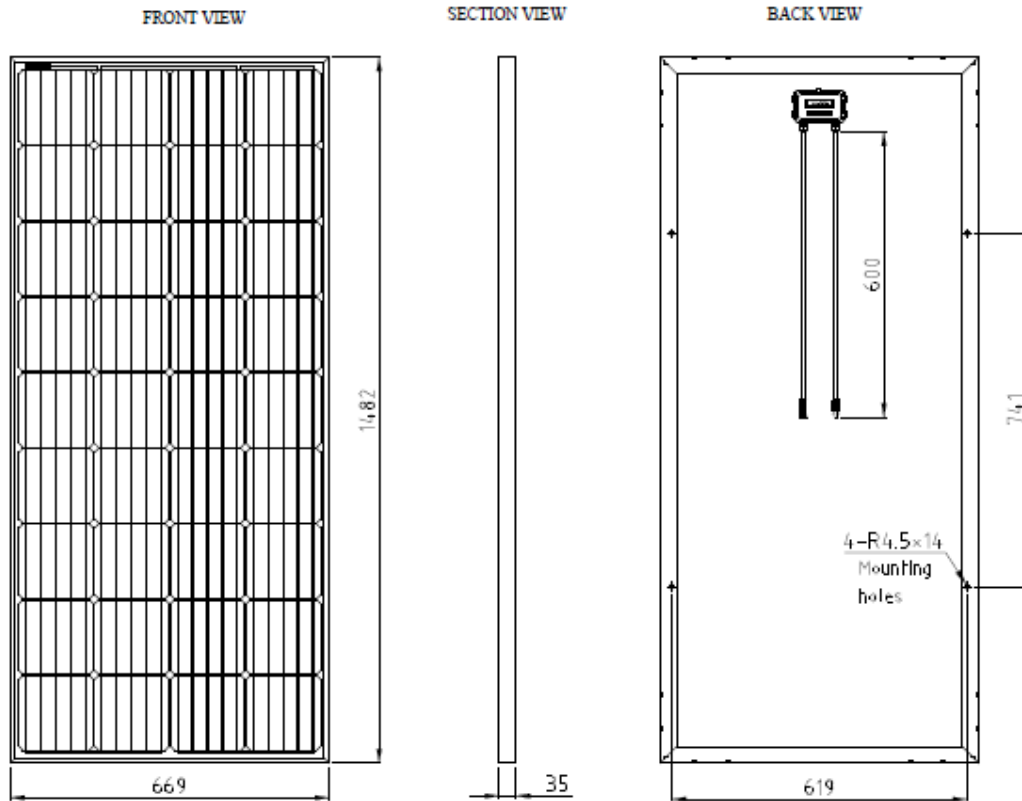
Certification



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- 1, Tempered Glass
- 2, EVA (Ethylene Vinyl Acetate)
- 3, Solar Cells
- 4, EVA (Ethylene Vinyl Acetate)
- 5, Back sheet

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Electrical Specification	EXS-180M-S
Maximum Power (Pmax)	180W
Module Efficiency	20.0%
Open Circuit Voltage (Voc)	23.54V
Short Circuit Current (Isc)	9.79A
Maximum Power Voltage (Vmp)	19.31V
Maximum Power Current (Imp)	9.32A
Maximum System Voltage	1000V (TUV) / 600V (UL)
Maximum Series Fuse Rating	10A
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)	1482x669x35mm
Cell Type and Size	Mono-crystalline, 156x156mm
Number of Cell	36 (4 x 9)
Glass Thickness (mm)	3.2
Weight (kgs)	12
Maximum Load (TUV) (Pascal)	5400
Junction Box	IP65 or IP 67 rated

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Temperature Characteristics

Nominal Operating Cell Temperature	-40~+85 °C
Nominal Operating Cell Temperature (NOCT)	45 +/- 2 °C
Temperature Coefficient (Pmax)	-0.38% / °C
Temperature Coefficient (Voc)	-0.31% / °C
Temperature Coefficient (Isc)	0.03% / °C

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