

Einnova Solarline

invented for solar

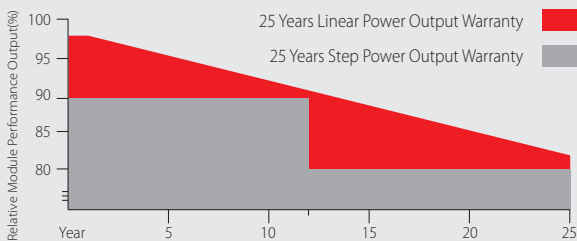


Mono crystalline Solar Module

Black ESM 270/275/280/285/290/295

FEATURES

- Excellent module efficiency up to 18.2% by using high efficient Monocrystalline 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 90% Power Output
- 25 Years Minimum 80% Power Output

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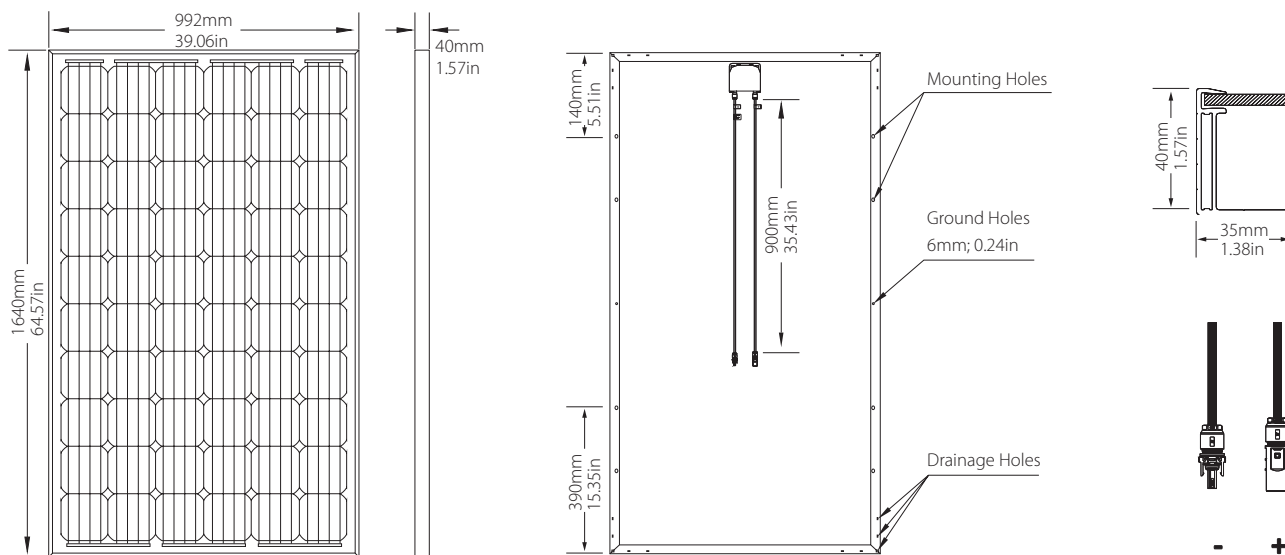
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Electrical Specification

Model Type	Unit	ESM 270	ESM 275	ESM 280	ESM 285	ESM 290	ESM 295
Maximum Power (Pmax)	W	270	275	280	285	290	295
Module Efficiency	%	16.6	16.9	17.2	17.5	17.9	18.2
Open Circuit Voltage (Voc)	V	38.2	38.8	39.1	39.2	39.4	39.5
Short Circuit Current (Isc)	A	9.21	9.47	9.50	9.53	9.56	9.68
Maximum Power Voltage (Vmp)	V	30.8	30.9	31.3	31.7	32.1	32.5
Maximum Power Current (Imp)	A	8.77	8.91	8.96	9.00	9.05	9.10
Maximum System Voltage	V	1000 (TUV) / 600 (UL)					
Maximum Series Fuse Rating	A	15					
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 × 40
Cell Dimension (mm)	156 × 156
Number of Cell	60 (6 × 10)
Glass Thickness (mm)	3.2
Weight (kgs)	18.0
Maximum Load (TUV) (Pascal)	5400
Junction Box and Cable connector	IP65 or IP 67 rated; MC4 compatible

Temperature Characteristics

Nominal Operating Cell Temperature (NOCT)	45 +/- 2 °C
Temperature Coefficient (Pmax)	-0.39% / °C
Temperature Coefficient (Voc)	-0.30% / °C
Temperature Coefficient (Isc)	0.05% / °C
Operating Temperature	-40~85 °C

IV CURVE

