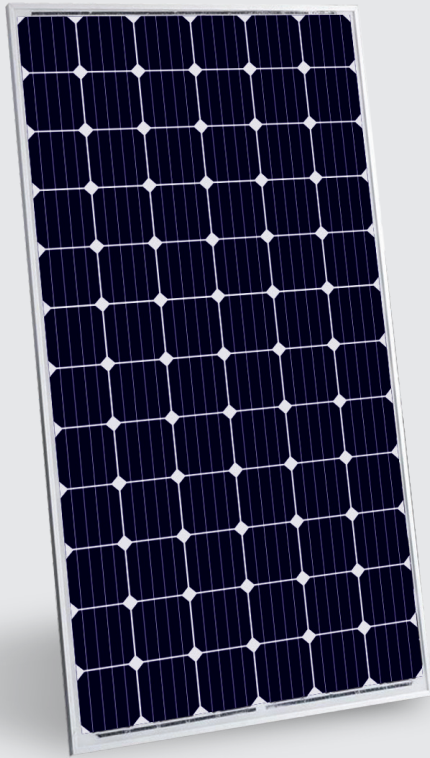


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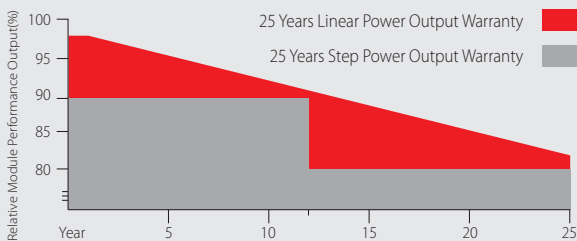


Mono crystalline Solar Module

ESM 300/305/310/315/320/325

FEATURES

- Excellent module efficiency up to 16.8% 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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Nanjing, 210008, China

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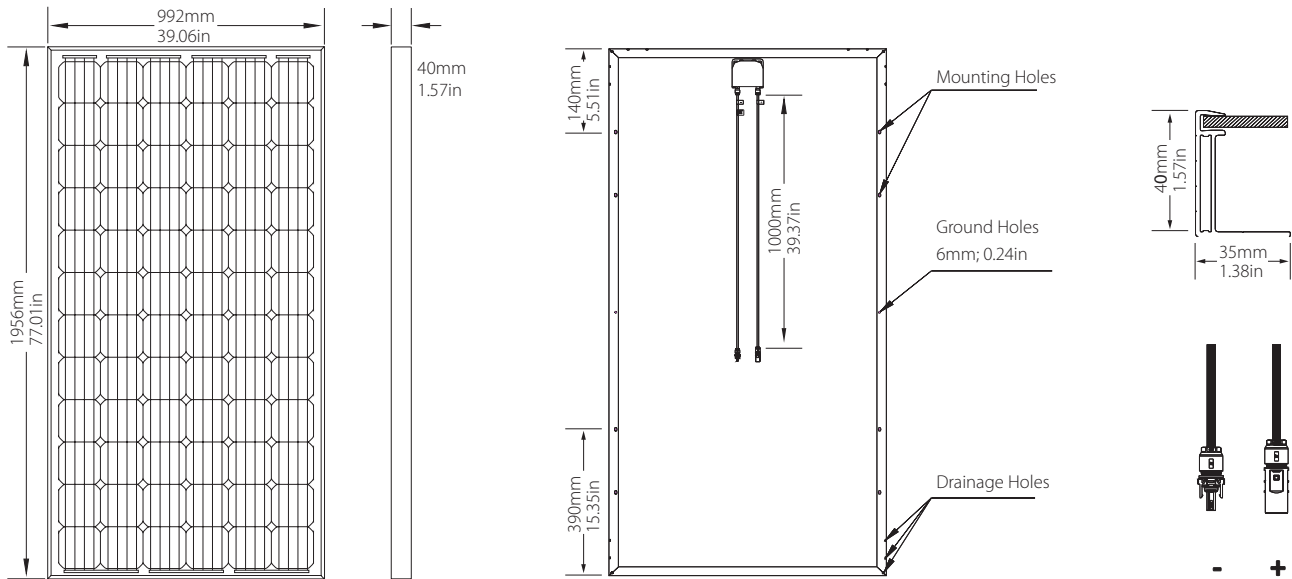
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Mono crystalline Solar Module

ESM 300/305/310/315/320/325

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Electrical Specification

Model Type	Unit	ESM 300	ESM 305	ESM 310	ESM 315	ESM 320	ESM 325
Maximum Power (Pmax)	W	300	305	310	315	320	325
Module Efficiency	%	15.5	15.7	16.0	16.2	16.5	16.8
Open Circuit Voltage (Voc)	V	44.6	44.9	45.0	45.3	45.6	45.8
Short Circuit Current (Isc)	A	8.56	8.59	8.64	8.76	8.89	9.01
Maximum Power Voltage (Vmp)	V	36.7	36.8	37.0	37.2	37.3	37.5
Maximum Power Current (Imp)	A	8.18	8.29	8.38	8.47	8.58	8.67
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)	1956x 992x 40
Cell Dimension (mm)	156 x 156
Number of Cell	72 (6 x 12)
Glass Thickness (mm)	3.2
Weight (kgs)	21.0
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

