

# Einnova Solarline

*invented for solar*

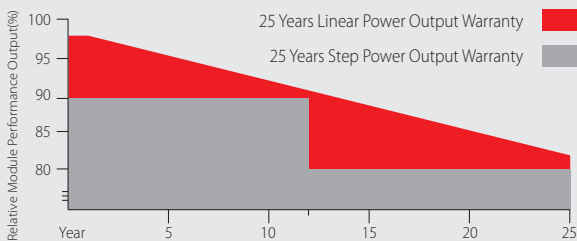


## Mono crystalline Solar Module

Black ESM 330/335/340/345/350/355

## FEATURES

- Excellent module efficiency up to 18.3% 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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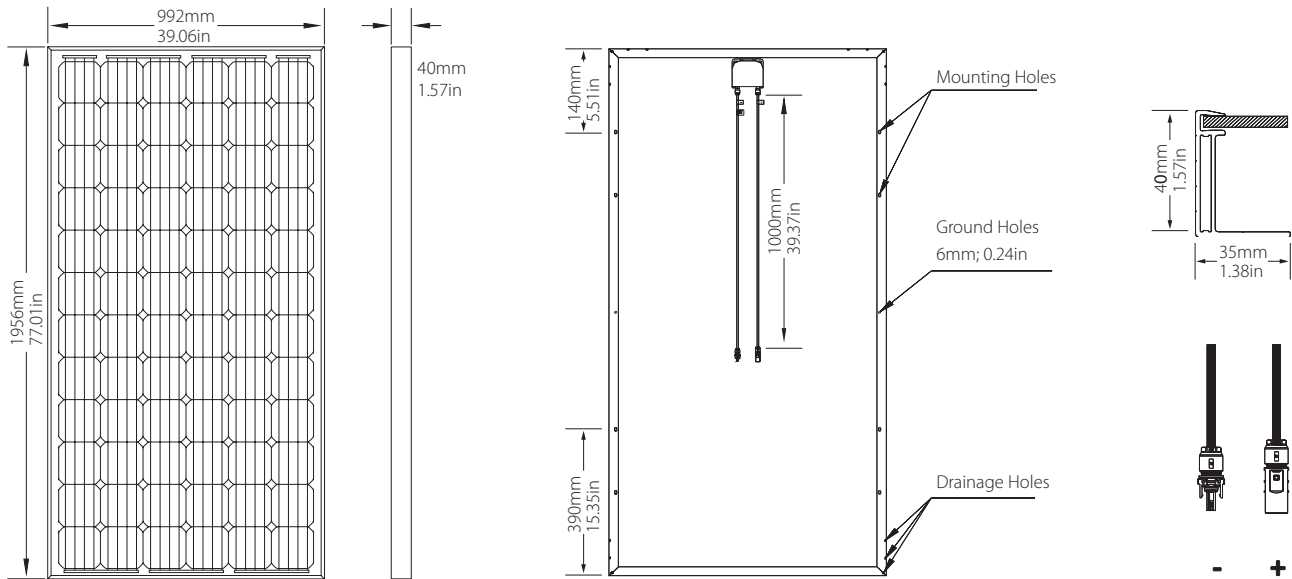
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## Electrical Specification

Model Type	Unit	ESM 330	ESM 335	ESM 340	ESM 345	ESM 350	ESM 355
Maximum Power (Pmax)	W	330	335	340	345	350	355
Module Efficiency	%	17.0	17.3	17.5	17.8	18.0	18.3
Open Circuit Voltage (Voc)	V	46.1	46.3	46.4	46.5	46.9	47.3
Short Circuit Current (Isc)	A	9.13	9.20	9.27	9.34	9.51	9.65
Maximum Power Voltage (Vmp)	V	37.6	37.9	38.3	38.4	38.6	38.8
Maximum Power Current (Imp)	A	8.78	8.84	8.88	8.99	9.07	9.15
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/m<sup>2</sup>, spectrum AM 1.5 and cell temperature of 25°C.

The NOCT is obtained under the Test Conditions: 800W/m<sup>2</sup>, 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

