

# Einnova Solarline

*invented for solar*

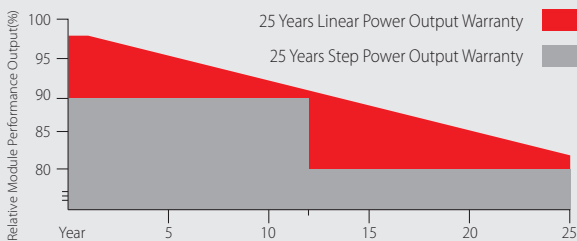


## Mono crystalline Solar Module

### Black ESM 300/305/310

## FEATURES

- Excellent module efficiency up to 19.1% 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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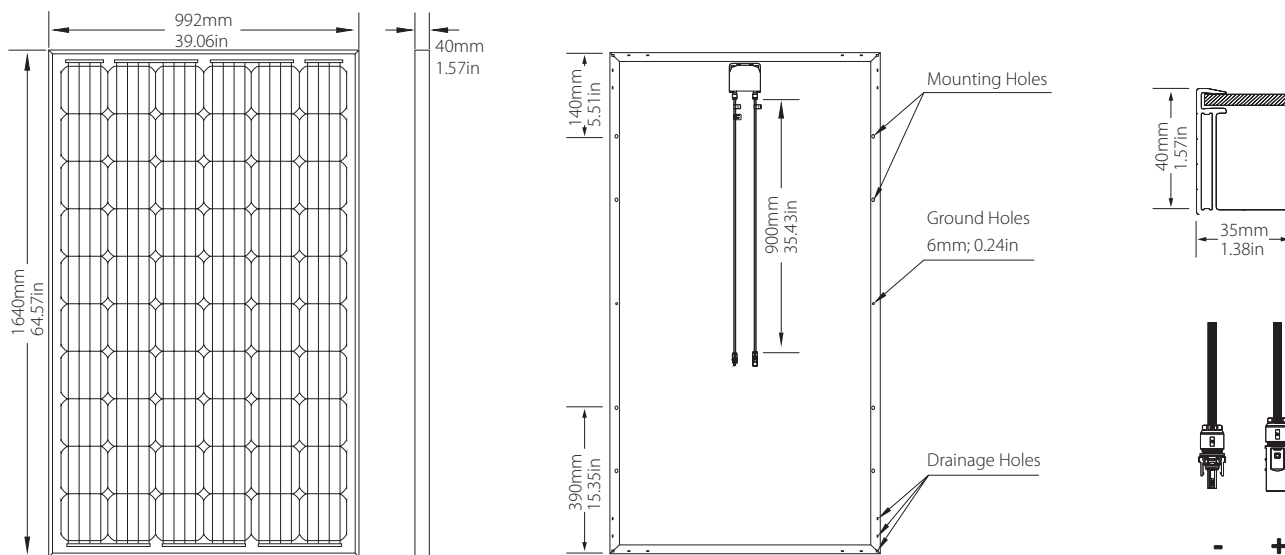
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The specifications are subject to change without prior notice.

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## Black ESM 300/305/310

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## Electrical Specification

Model Type	Unit	ESM 300	ESM 305	ESM 310
Maximum Power (Pmax)	W	300	305	310
Module Efficiency	%	18.5	18.7	19.1
Open Circuit Voltage (Voc)	V	39.7	39.8	40.0
Short Circuit Current (Isc)	A	9.77	9.88	9.94
Maximum Power Voltage (Vmp)	V	32.6	32.8	33.1
Maximum Power Current (Imp)	A	9.21	9.29	9.37
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)	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

