

# Einnova Solarline

*invented for solar*

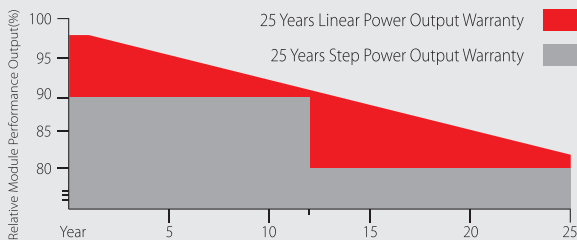


## Mono crystalline Solar Module

### Black ES265/270/275/280

## FEATURES

- Excellent module efficiency up to 17.1% 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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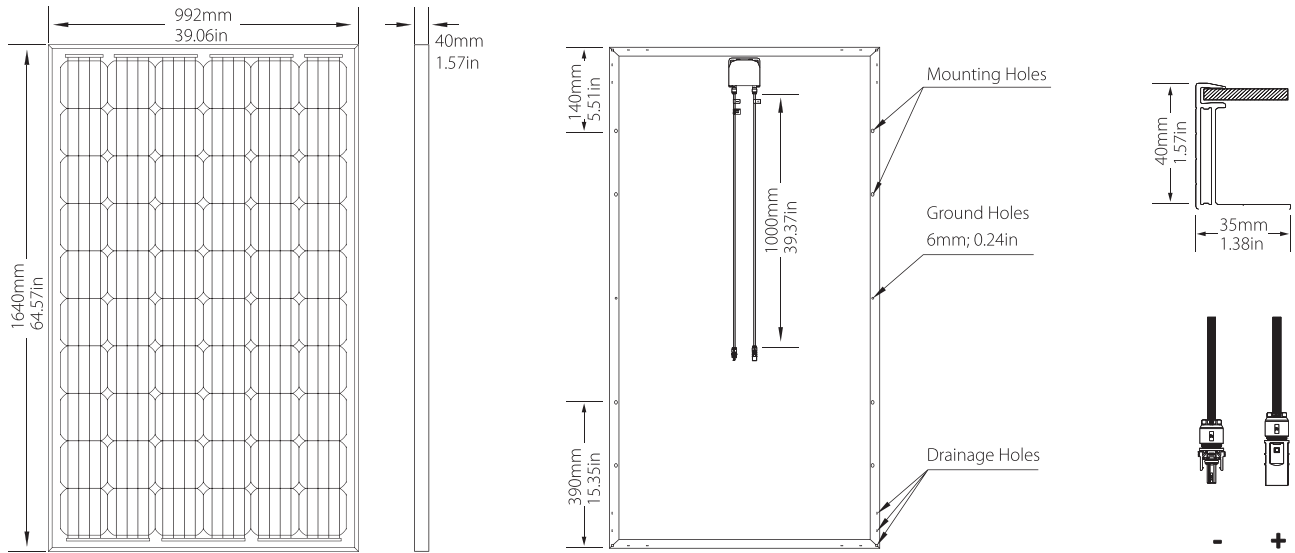
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# Mono crystalline Solar Module

## Black ESM 265/270/275/280

**Ennova Solarline**  
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### Electrical Specification

Model Type	Unit	ESM 265	ESM 270	ESM 275	ESM 280
Maximum Power (Pmax)	W	265	270	275	280
Module Efficiency	%	16.21	16.51	16.8	17.1
Open Circuit Voltage (Voc)	V	38.02	38.21	38.8	39.1
Short Circuit Current (Isc)	A	9.13	9.21	9.47	9.5
Maximum Power Voltage (Vmp)	V	30.1	30.5	30.9	31.3
Maximum Power Current (Imp)	A	8.81	8.85	8.91	8.96
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.

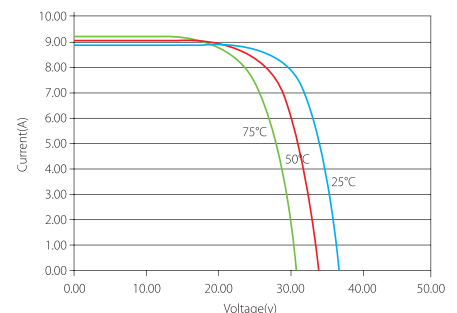
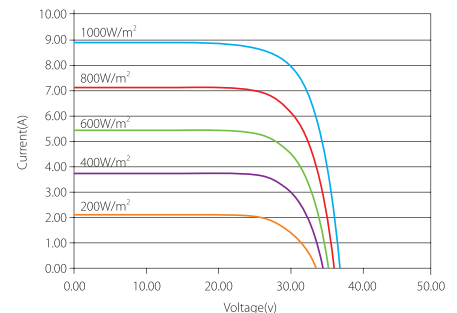
### Mechanical Specification

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)	-0.41% / °C
Temperature Coefficient ( Voc )	-0.33% / °C
Temperature Coefficient ( Isc )	0.059% / °C
Operating Temperature	-40~85 °C

### IV CURVE



The specifications are subject to change without prior notice.