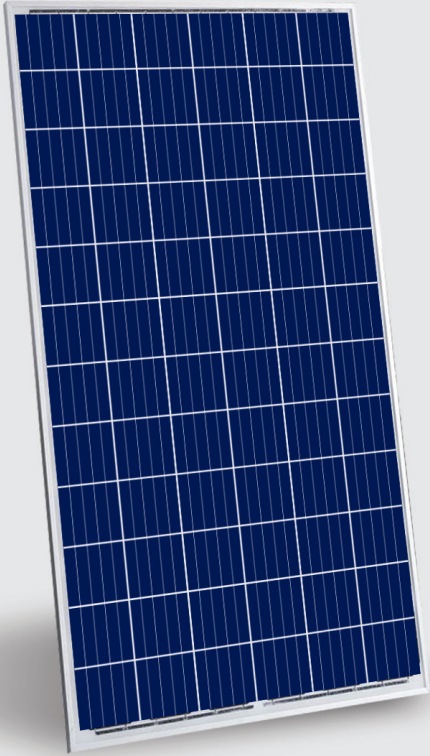


Einnova Solarline

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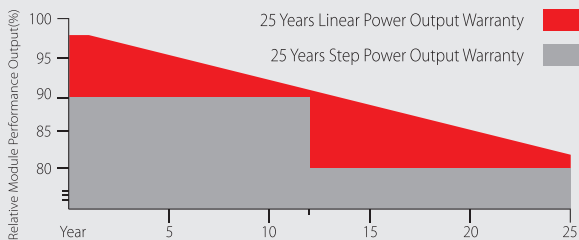


Poly crystalline Solar Module

ESP 320/315/310/305/300

FEATURES

- Excellent module efficiency up to 16.50% by using high efficient polycrystalline 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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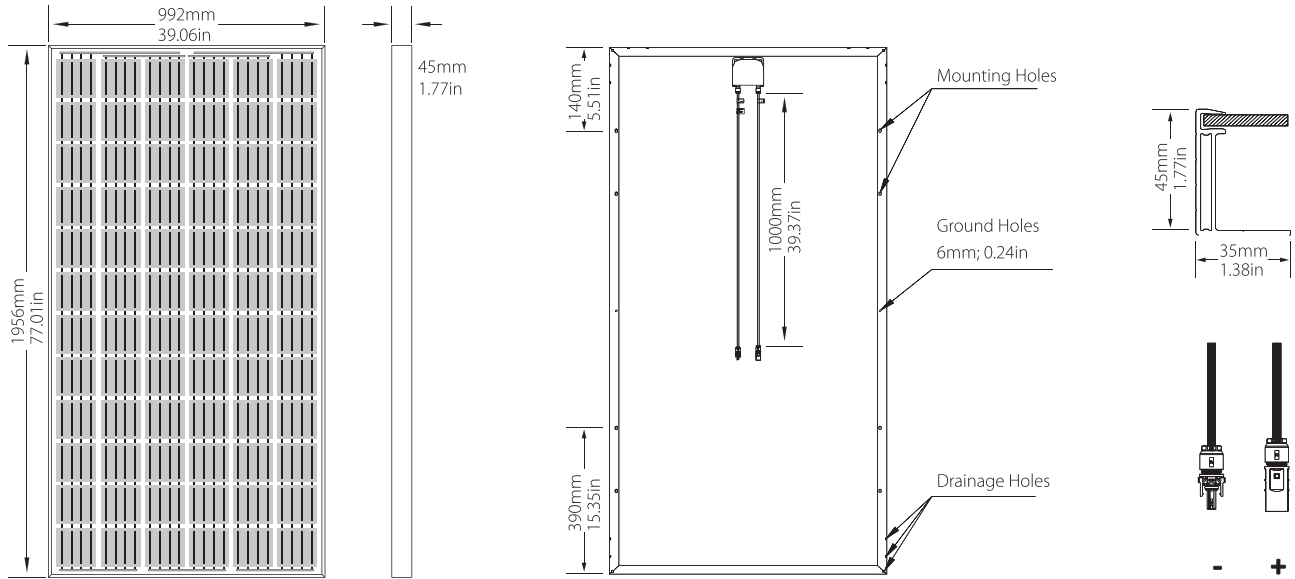
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The specifications are subject to change without prior notice.

Poly crystalline Solar Module

ESP 320/315/310/305/300

Ennova Solarline
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Electrical Specification

Model Type	Unit	ESP 320	ESP 315	ESP 310	ESP 305	ESP 300
Maximum Power (Pmax)	W	320	315	310	305	300
Module Efficiency	%	16.5	16.3	16.0	15.83	15.56
Open Circuit Voltage (Voc)	V	46.00	45.7	45.5	45.23	45.21
Short Circuit Current (Isc)	A	9.50	9.35	9.01	8.60	8.59
Maximum Power Voltage (Vmp)	V	37.50	37.2	37.0	36.97	36.95
Maximum Power Current (Imp)	A	8.53	8.47	8.38	8.25	8.12
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.

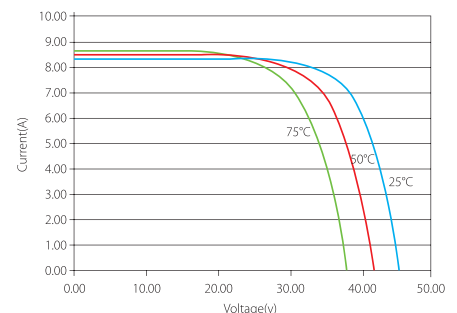
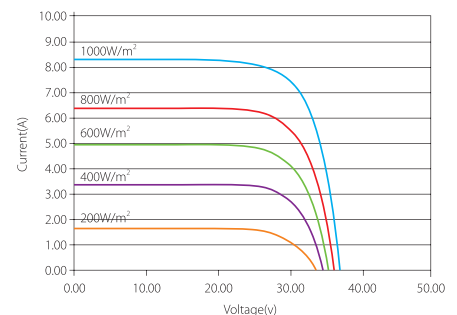
Mechanical Specification

Module Dimension (mm)	1956 × 992 × 45
Cell Dimension (mm)	156 × 156
Number of Cell	72 (6 × 12)
Glass Thickness (mm)	3.2
Weight (kgs)	21.5
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)	0.058% / °C
Operating Temperature	-40~85 °C

IV CURVE



The specifications are subject to change without prior notice.