einnova Solarline

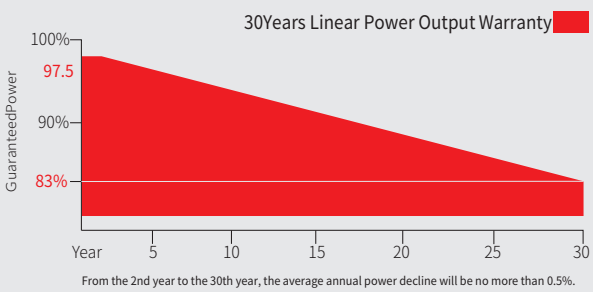
invented for solar

Mono crystalline Solar Module

ESM 315/320/325/330/335 Super black

FEATURES

- Positive power tolerance up to 5w
- Heavy snow load up to 5400 Pa and wind load up to 3800Pa
- IP68 junction box is available for long term weather endurance
- Salt mist, ammonia and blowing sand resistance, apply to seaside, farm and desert areas
- Selective materials and rigid process effectively control Potential Induced Degradation (PID)
- Total quality control and complete traceability of Material by Shop Floor Control (SFC)



From the 2nd year to the 30th year, the average annual power decline will be no more than 0.5%.

WARRANTY

- 12 Years Product Workmanship Warranty
- 12 Years Minimum 92% Power Output
- 30 Years Minimum 83% Power Output

China Jiangsu International Group Ltd.

5 West Beijing Road, Nanjing, 210008, China

+86-(0)25-84792033

+86-(0)25-84705923

info@einnova-solarline.com

www.einnova-solarline.com

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The specifications are subject to change without prior notice.

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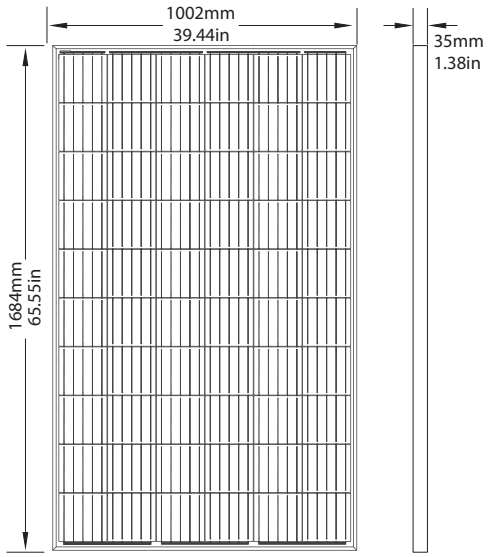
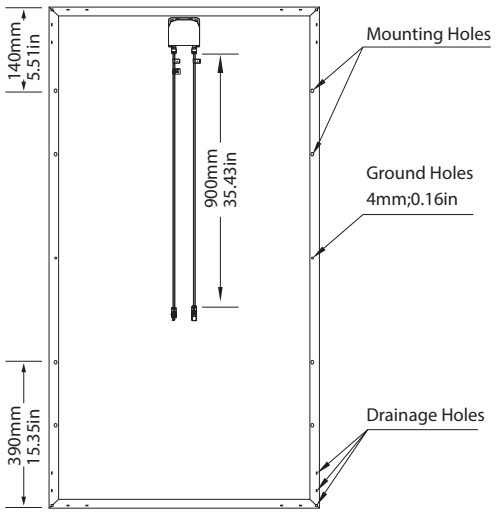
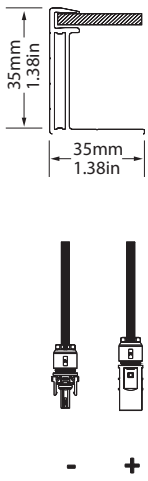






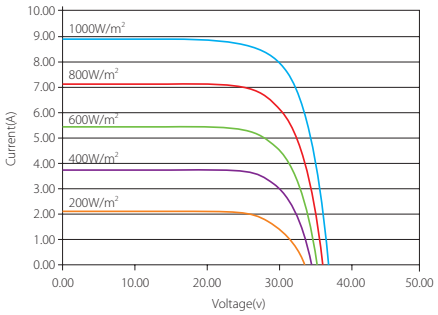
Electrical Specification

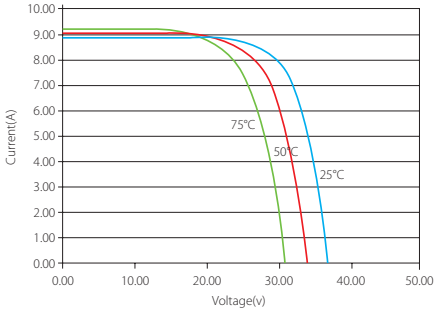
Model Type	Unit	ESM 315	ESM 320	ESM 325	ESM 330	ESM 335
Maximum Power (Pmax)	W	315	320	325	330	335
Module Efficiency	%	18.88	19.18	19.48	19.78	20.08
Open Circuit Voltage (Voc)	V	40.7	40.9	41.1	41.3	41.5
Short Circuit Current (Isc)	A	10.04	10.15	10.20	10.31	10.36
Maximum Power Voltage (Vmp)	V	33.2	33.4	33.6	33.8	34.0
Maximum Power Current (Imp)	A	9.49	9.59	9.68	9.77	9.87
Maximum System Voltage	V	1500V(IEC/UL)/1000V(IEC/UL)				
Maximum Series Fuse Rating	A	20A				
Power Tolerance		0~+5W				

Standard Test Conditions (STC) of irradiance of 1000 W/m^2, spectrum AM 1.5 and cell temperature of 25°C.

The NOCT is obtained under the Test Conditions: 800W/m^2, 20°C ambient temperature, AM 1.5 Spectrum, 1m/s wind speed.

IV CURVE





Mechanical Specification

Module Dimension (mm)	1684 x 1002 x 35
Number of Cell	60
Weight (kgs)	19kg
Maximum Load (TUV) (Pascal)	5400
Junction Box and Cable connector	IP68 rated; MC4 compatible
Back-sheet **and frame** Color	Black
Ribbons and Busbar Color	Black

Temperature Characteristics

Nominal Operating Cell Temperature (NOCT)	45 +/- 2 °C
Temperature Coefficient (Pmax)	-0.35% / °C
Temperature Coefficient (Voc)	-0.29% / °C
Temperature Coefficient (Isc)	0.048% / °C
Operating Temperature	-40~85 °C

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