

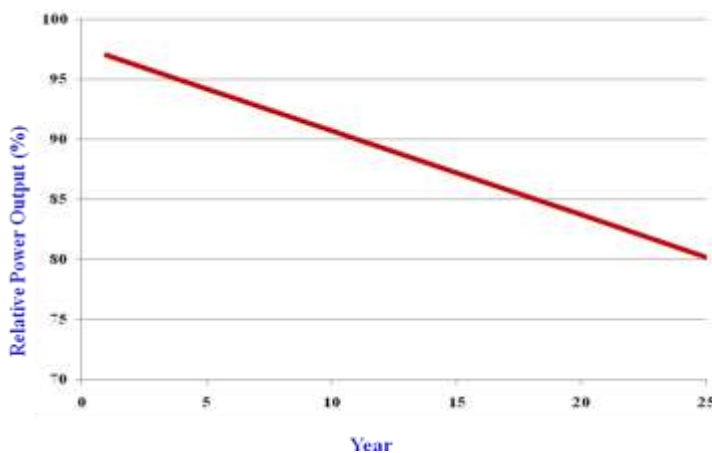


Features

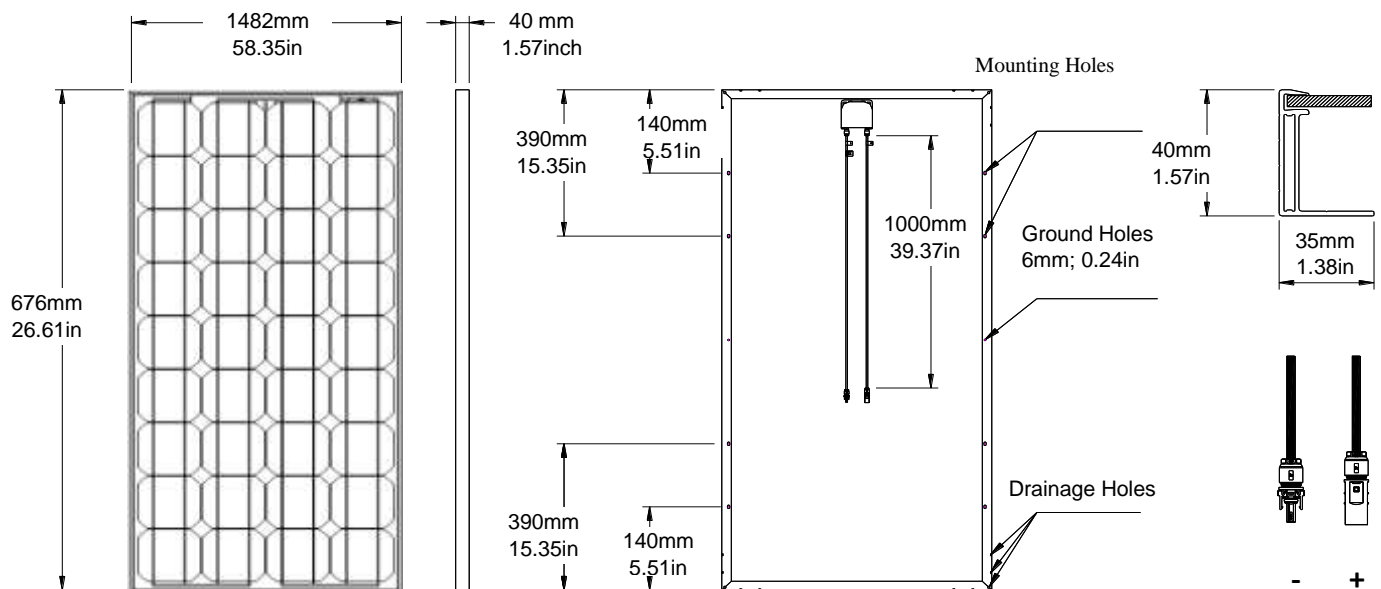
- ✧ Excellent module efficiency up to 15.5% by using high efficient Monocrystalline solar cells 156x156mm
- ✧ Outstanding performance at low irradiance above 96.3%
- ✧ Heavy snow load up to 5400 Pa and wind load up to 3800Pa
- ✧ IP65 or 67 junction box is available for long term weather endurance
- ✧ 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

- ❖ 10 Years Product Workmanship Warranty
- ❖ 25 Years Linear Power Output Warranty



Physical Specification



Electrical Specification

Model Type	Unit	ESM 155	ESM 150	ESM 145	ESM 140
Maximum Power (Pmax)	W	155	150	145	140
Module Efficiency	%	15.5	15.0	14.5	14.0
Open Circuit Voltage (Voc)	V	22.5	22.4	22.3	22.2
Short Circuit Current (Isc)	A	9.11	8.60	8.45	8.34
Maximum Power Voltage (Vmp)	V	18.3	18.2	18.0	17.8
Maximum Power Current (Imp)	A	8.47	8.24	8.06	7.87
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.

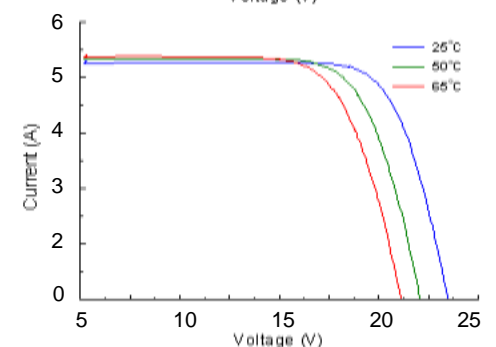
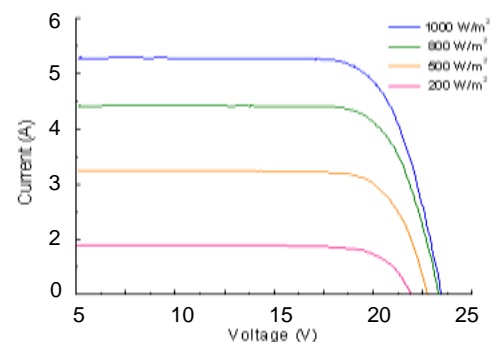
Mechanical Specification

Module Dimension (mm)	1482 × 676 × 40
Cell Dimension (mm)	156 × 156
Number of Cell	36 (4 × 9)
Glass Thickness (mm)	3.2
Weight (kgs)	12.0
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)	-0.43% / C
Temperature Coefficient (Voc)	-0.34% / C
Temperature Coefficient (Isc)	0.06% / C

IV CURVE



The specifications are subject to change without prior notice.