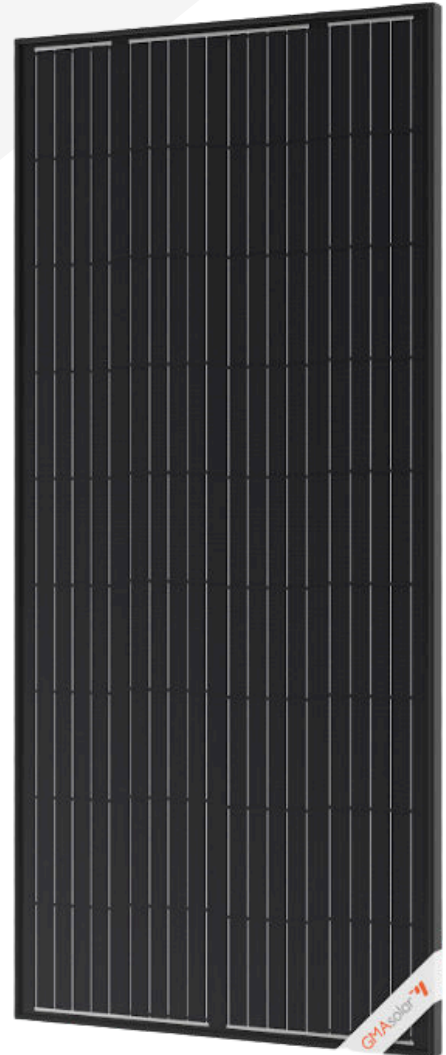


280 Watt SOLAR MODULE

- ◆◆ Tested to UL:1703
- ◆◆ CSA: Canadian Certification
- ◆◆ CE: European Certification
- ◆◆ Resistance to salt mist and ammonia corrosion
- ◆◆ Performance tests under extreme conditions
- ◆◆ Wind and snow load testing



◆◆ Key Features



Higher Energy Efficiency

Polycrystalline technology harnesses reflected light.



High Climate Resilience

Wind load resistance of 2400Pa and snow load resistance of 5400Pa.



Improved Performance in Low Light

Optimal operation in low irradiation conditions.



Longer Lifespan

25-year warranty with over 85% power output.



PID Protection

Minimized power loss due to degradation effects.



Easy Installation & Compatibility

Lightweight design for easier handling and installation.

280 Watt SOLAR MODULE



> Electrical Parameters at STC

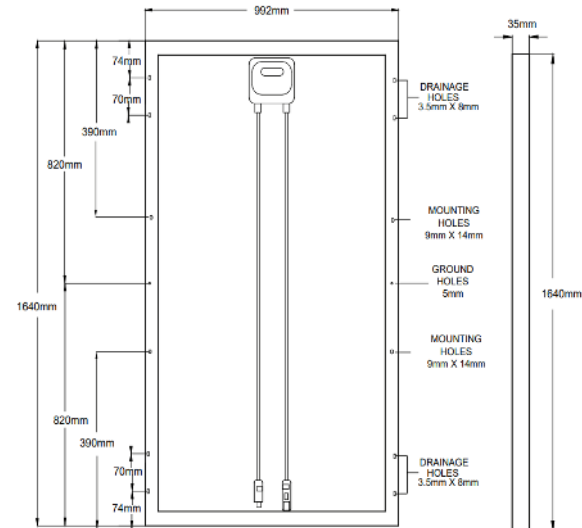
Peak Power	P _{max} (W)	280
Maximum Power Voltage	V _{mp} (V)	31.0
Maximum Power Current	I _{mp} (A)	8.88
Open-circuit voltage	V _{oc} (V)	38.0
Short-circuit current	I _{sc} (A)	9.45
Module Efficiency	η(%)	16.88

Values at standard test conditions STC (Air mass AM 1.5, Irradiance 1000W/sqm, Cell temperature 25°C)
Power Measurement Tolerance: 0 / +3%

> Mechanical Data

Solar Cell (Type / Dimension)	Poly-crystalline solar cells / 156 x 156 mm
Cell (Quantity / Orientation)	60 cells / 6 x 10
Module Dimension (L x W x H)	1640 X 992 X 35 mm
Weight	18 kg
Frame (material)	Anodized aluminum
Front glass (material/ thickness)	High transmission low-iron tempered glass / 3.2mm
Backsheet (material)	Fluoropolymer coating / PET / polyolefin
Mechanical Load	50 psf, 245Kg/sqm, 2400 Pa, 0.34 psi, front and back
Junction Box (protection degree)	≥IP 65
Output Cables (Length/cross-sectional area)	1000 mm length, 10 AWG PV cable, UV protected
Connector (type / protection degree)	MC4 / IP68 rated

> Mechanical Drawing



> Temperature Coefficients

Nominal Operating Cell Temp. (NOCT)	45 +/- 2 °C
Voltage Temperature Coefficient (VOC)	-0.31% / °C
Current Temperature Coefficient (Isc)	0.033% / °C
Power Temperature Coefficient (Pmax)	-0.42% / °C

> Maximum Ratings

Operational Temperature	-40°C to +85°C
Maximum System Voltage	600VDC
Max Series Fuse Rating	15A

> Warranty & Certifications

Certification	Tested to UL 1703
Fire Rating	Type 2
Warranty	25 years Power Output Warranty 10 years 90%, 25 years 85% 10 years Product Warranty on Material

> I-V Curve

