

300 Watt SOLAR MODULE

- ◆ Tested To UL:1703
- ◆ CSA certified
- ◆ Resistance to salt mist and ammonia corrosion
- ◆ Performance tests under extreme conditions
- ◆ Wind and snow load testing



◆ Key Features



Higher Energy Efficiency
Monocrystalline technology harnesses reflected light.



Improved Performance in Low Light
Optimal operation in low irradiation conditions.



PID Protection
Minimized power loss due to degradation effects.



High Climate Resilience
Wind load resistance of 2400Pa and snow load resistance of 5400Pa.



Longer Lifespan
25-year warranty with over 85% power output.



Easy Installation & Compatibility
Lightweight design for easier handling and installation.



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> Electrical Parameters at STC

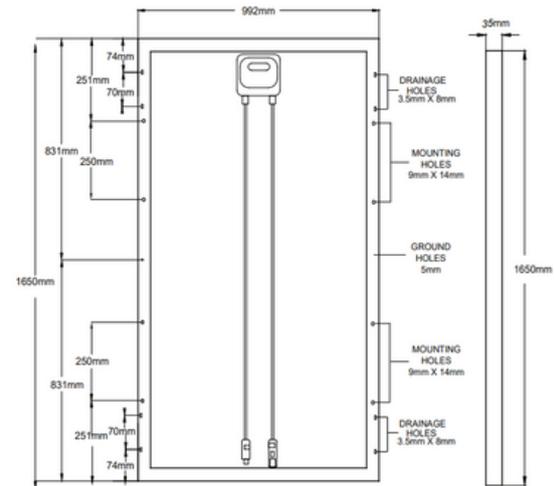
Peak Power	P _{max} (W)	300
Maximum Power Voltage	V _{mp} (V)	32.15
Maximum Power Current	I _{mp} (A)	9.33
Open-circuit voltage	V _{oc} (V)	39.61
Short-circuit current	I _{sc} (A)	9.78
Module Efficiency	η(%)	18.3

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)	Mono-crystalline solar cells / 156.75 x 156.75
Cell (Quantity / Orientation)	60 cells / 6 x 10
Module Dimension (L x W x H)	1650 X 992 X 35 mm
Weight	19 kg
Frame (material)	Anodized aluminum / Silver
Front glass (material/ thickness)	High transmission low-iron tempered glass / 3.2mm
Backsheet (material)	Fluoropolymer coating / PET / polyolefin
Mechanical Load	Wind/Snow 2400/5400 Pa, Hail 23m/s, 7.53g
Junction Box (protection degree)	≥IP 65
Junction Box (diode)	Three (3) bypass diodes
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)	-0.35% / °C
Current Temperature Coefficient (Isc)	0.04% / °C
Power Temperature Coefficient (Pmax)	-0.45% / °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 Materials

> I-V Curve

