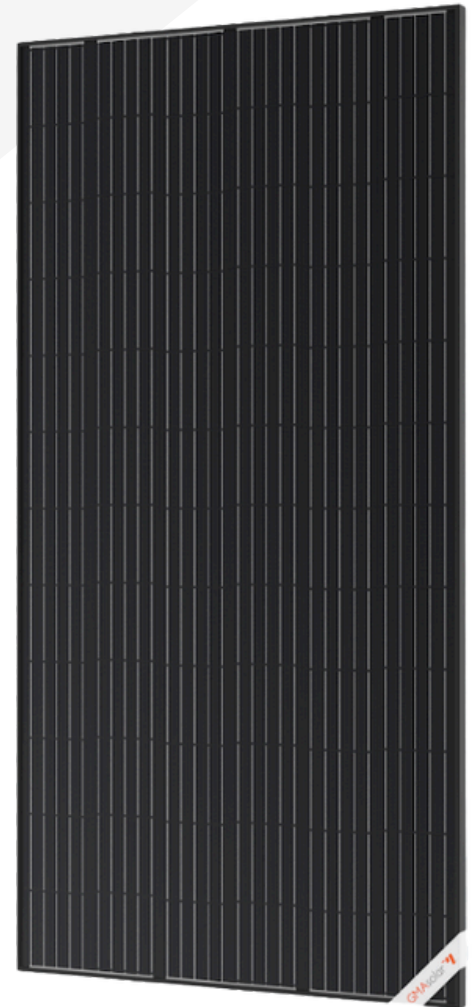


400 Watt SOLAR MODULE

- ◆◆ 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.



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.

400 Watt SOLAR MODULE

> Electrical Parameters at STC

Peak Power	P _{max} (W)	400
Maximum Power Voltage	V _{mp} (V)	39.6
Maximum Power Current	I _{mp} (A)	10.11
Open-circuit voltage	V _{oc} (V)	47.52
Short-circuit current	I _{sc} (A)	10.72
Module Efficiency	η(%)	20

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 silicon / 158.75 x 158.75 mm
Cell (Quantity / Orientation)	72 cells / 6 x 12
Module Dimension (L x W x H)	1956 X 992 X 40 mm
Weight	22.5 kg
Frame (material)	Anodized aluminum / silver
Front glass (material/ thickness)	High transmission low-iron tempered glass / 3.2mm
Backsheet (material)	TPT
Mechanical Load	Wind/Snow 2400/5400 Pa, Hail 23m/s, 7.53g
Junction Box (protection degree)	≥IP 65
Bypass Diode Rating (A)	10
Output Cables	MC4 Compatible
Connector (type / protection degree)	MC4 / IP68 rated

> 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	1000VDC

> Warranty & Certifications

Warranty	25 years Power Output Warranty 10 years 90%, 25 years 85% 10 years Product Warranty on Materials
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> Mechanical Drawing

