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Solar Panel Guide Specification Data Sheet

GMA Solar GMA M6-60-280W-40mm GMA 160-36

GMA M6 - 60 - 280W 40mm GMAsolar ...





POWERFUL PERFORMANCE FOR A CLEANER PLANET

- MANUFACTURED IN MONTREAL, CANADA
- 25 YEAR LINEAR POWER WARRANTY
- 12 YEAR WORKMANSHIP WARRANTY
- OUTSTANDING LOW LIGHT PERFORMANCE
- MC4 CONNECTORS
- POSITIVE TOLERANCE 0/+3%

GMASOLAR introduces the new generation of solar modules. Providing - more power by utilizing high efficiency solar cells. Ideal for off grid systems thanks to their robust design proving reliability and high quality performance in isolated areas.

GMASOLAR Reliability. All our solar modules are manufactured according to UL and IEC standards. Each solar module is passed through several strict quality control tests before and after the lamination process. One of the many tests which include the Solar Cell and Module EL (Electroluminescence) Tester. The EL tester provides valuable information and overall the quality of the production process. With EL imaging, it detects every hidden defect and thus ensures an effective, accurate and high performance solar module.

GMASOLAR Flexibility. Our solar modules are designed to offer worry free use in the harshest weather climates. Our frame allows installation in multiple configurations, making an easy, safe and faster installation. The water drain holes prevent frame breakage due to freezing temperatures.









	ELECTRICAL PARAMETERS @ STC		
	Module Type		GMA 160-36
	Peak Power	Pmax (W)	280
	Maximun Power Voltage	Vmp (V)	35.82
	Maximun Power Current	Imp (A)	7.82
	Open-circuit voltage	Voc (V)	44.60
	Short-circuit current	Isc (A)	8.43
	Module Efficiency	n(%)	17.21

Values at standard test conditions STC (Air mass AM1.5, Irradiance 1000W/sqm, Cell temperature 25°C) Power Measurement Tolerance: 0/+3%

Solar Cell (type / dimension) Cell (quantity / orientation) Mono-crystalline solar cells / 156 x 156 mm 60 cells / 6 x 10 Module Dimension (L x W x H) 1640 X 992 X 40 mm (64.57 x 39.05 x 1.57 inches) Weight 20 kg

Front Glass (material / thickness) High transmission low-iron tempered glass / 3.2mm

Anodized aluminum / Silver

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

MECHANICAL DATA

Frame (material / colour)

Junction Box (diode) Three (3) bypass diodes
Output Cables (Length/cross-sectonal area) 1000 mm length, 10 AWG PV cable, UV protected

Connector (type / protection degree) MC4 / IP68 rated

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

Operatonal Temperature -40°C to +85°C

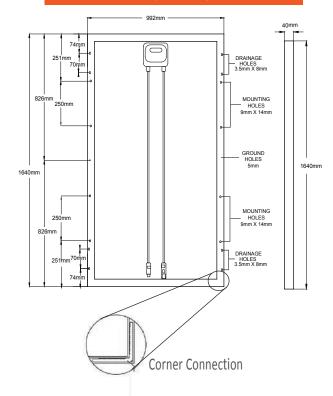
Maximun System Voltage 1000V DC (IEC) - 600V DC (UL)

Max Series Fuse Rating 15A

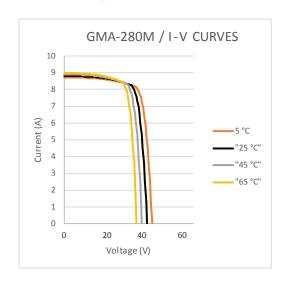
WARRANTY & CERTIFICATIONS

Certfication	Tested to UL 1703 / IEC 61215 / IEC 61730 CE .
Fire Rating	Class C
Warranty	12 years workmanship, 12 years 90%, 25 years 80%

MECHANICAL DRAW (Back View)



I-V CURVE OF PV MODULE GMA 60-M / 280W





Note: The specifications are subject to change without notice.