

ELECTRICAL PARAMETERS @ STC

Module Type		GMAP6-60
Peak Power	P _{max} (W)	280
Maximun Power Voltage	V _{mp} (V)	31.0
Maximun 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 AM1.5, 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 / color)	Anodized aluminum / silver
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
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

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

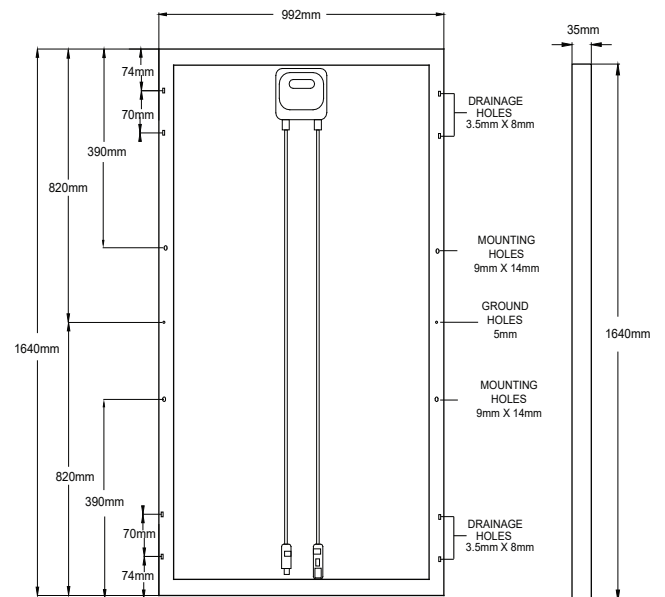
Operational Temperature	-40°C to +85°C
Maximun System Voltage	600V DC
Max Series Fuse Rating	15A

WARRANTY & CERTIFICATIONS

Certification	Tested to UL 1703
Fire Rating	Type 2
Warranty	12 years workmanship, 12 years 90%, 25 years 80% Power Warranty

Note: The specifications are subject to change without notice.

MECHANICAL DRAW (Back View)



I-V CURVE OF PV MODULE GMA P6-60-280

