

210W SOLAR MODULE 12V



ELECTRICAL PARAMETERS @ STC

Module Type		GMAM5-72
Peak Power	P _{max} (W)	210
Maximum Power Voltage	V _{mp} (V)	18.8
Maximum Power Current	I _{mp} (A)	11.17
Open-circuit voltage	V _{oc} (V)	22.8
Short-circuit current	I _{sc} (A)	11.72
Module Efficiency	η(%)	15.7

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)	Mono-crystalline solar cells / 125 x 125 mm
Cell (quantity / orientation)	72 cells / 6 x 12
Module Dimension (L x W x H)	1580 X 808 X 35 mm
Weight	15.5 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, snow pressure of 5400 Pa
Junction Box (protection degree)	IP 67
Junction Box (diode)	Two (2) bypass diodes
Output Cables (Length/cross-sectional area)	1000 mm length, 10 AWG PV cable, UV protected
Connector (type / protection degree)	MC4 / IP68

TEMPERATURE COEFFICIENTS

Nominal Operating Cell Temp. (NOCT)	47 +/- 2 °C
Voltage Temperature Coefficient (VOC)	-0.35% / °C
Current Temperature Coefficient (Isc)	0.06% / °C
Power Temperature Coefficient (Pmax)	-0.4% / °C

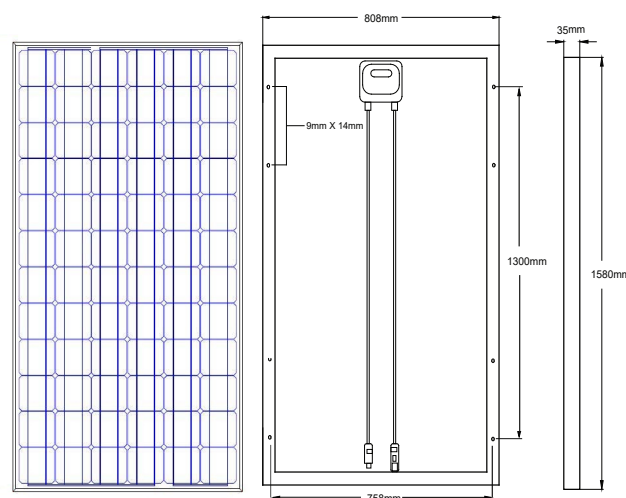
MAXIMUM RATINGS

Operational Temperature	-40°C to +85°C
Maximum System Voltage	600VDC

WARRANTY & CERTIFICATIONS

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

MECHANICAL DRAW



I-V CURVE

