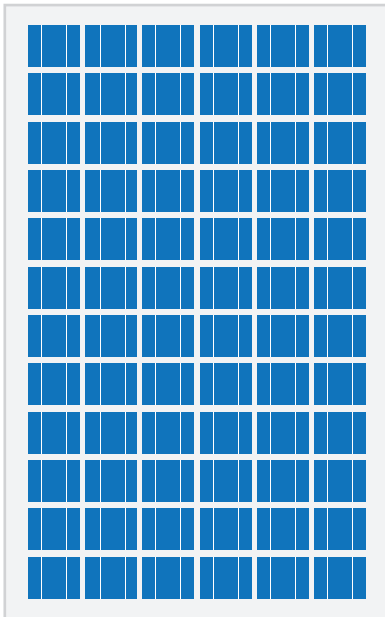


PV Module GEM156-72A

GEM156-72A PV module is composed of 72 pieces 156 x 156 polysilicon solar cells in series. This type of module is certified according to IEC 61215:2005 standard. It has characters of high efficiency, long life cycle, hail storm proof, and easy installation. Products are widely used in roofing system, street lamps, surveillance / detective systems and devices, grid-connected PV power systems and equipments. GEM156-72A PV module has different power levels, such as 270Wp, 275Wp, 280Wp, 285Wp, 290Wp, 295Wp, 300Wp, customized power level and etc.



Material Parameters

Profile	Parameters
	Module(frame)
Length(mm)	1965
Width(mm)	1000
Thickness(mm)	45
Weight(kg)	26.5
Cell Type	Poly-Silicon
Cell Dimension(mm)	156x156
Cell Quantity (pcs)	72
Cell Layout	6 x 12
Glass Ferruginous Content(ppm)	90~120
Glass Thickness(mm)	4
EVA	Bridge Stone and etc.
Back Film	TPT and TPE
Frame	Electrophoresis aluminum frame
Wire and Junction Box	MC and Tyco etc.
Junction Box Sealed Class	IP65

Advantages

- Strict selection of appearance and electric performance before encapsulation.
- Excellent low frequency light effect.
- High transparent tempered glass
- High quality EVA and back film.
- Anodic oxidized aluminum frame.
- Waterproof junction box.
- Aleak hole design against seeper icing and frame distortion.



IEC 61215
IEC 61730



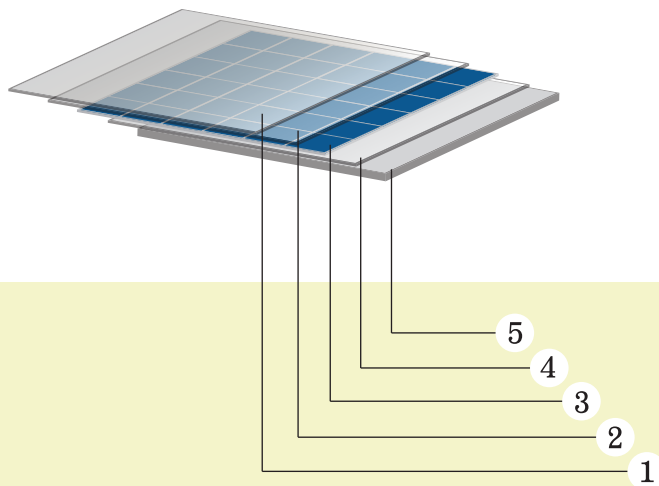
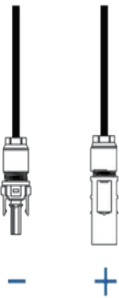
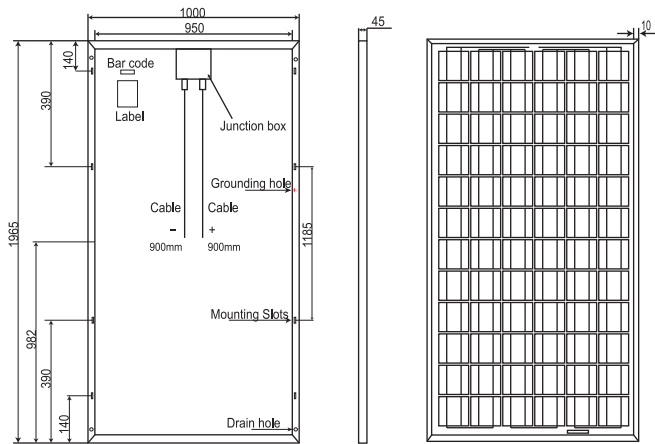
UL 1703
CEC listed



Application Class A
Safety Class II



Module Structure



- 1 Tempered Glass
- 2 EVA Film
- 3 Solar Cell Series
- 4 EVA Film
- 5 Rear-side Film

Technical Parameters

Model	GEM156-72A						
Rated Output(Wp)	270Wp	275Wp	280Wp	285Wp	290Wp	295Wp	300Wp
Maximum Power Voltage Vmp(V)	36.1	36.3	36.6	36.9	37.2	37.4	37.9
Maximum Power Current Imp(A)	7.52	7.59	7.6	7.7	7.8	7.9	8.0
Open Circuit Voltage Voc(V)	43.7	43.9	44.0	44.4	44.6	44.8	45.2
Short Circuit Current Isc(A)	7.9	8.0	8.1	8.2	8.3	8.4	8.5
Temperature Coefficient of Voc	-0.32%/°C						
Temperature Coefficient of Isc	+0.04%/°C						
Temperature Coefficient of Power	-0.45%/°C						
NOCT	45°C±2°C						
Working Temperature Range	-40°C~+85°C						
Maximum Permitted Load	±50 psf[2400Pa]/+113 psf[5400Pa]						
Insulation	≥1000MΩ						
Maximum System Voltage(V)	600V,1000V						
Standard Test Conditions	1000W/M ² ,25°C,AM1.5G						
Quality Warranty	90% 10 years, 80% 25 years						

IV Curve

