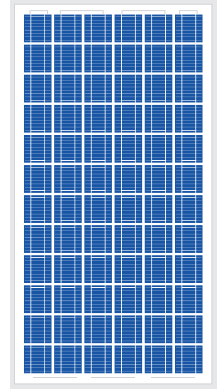


PERLIGHTSOLAR

PLM-280P-72 SERIES

Polycrystalline Silicon Solar Modules

High-efficiency photovoltaic module using silicon nitride coated polycrystalline silicon cells.



Specification:

- Solar cell: High efficiency crystalline solar cell. Even if under the weak light, the solar module can produce maximum power output
- Tempered glass: Anti-reflecting coating and high transmission rate glass increase the power output and mechanical strength of solar module.
- EVA and TPT: Using high quality EVA and TPT to prevent destroying and water.
- All frame: Without screw, corner connection. 8 holes on the frame can be installed easily.
- Junction box: Multi function junction box with water proof.
- Long lifetime: 25 years; Less power decrease.
- Good performance of preventing from atrocious weather such as wind and hails.
- Resisting moisture and etching effectively, not effect by geology.
- The certificate issued by international authority: ISO Quality Management system, CE, TUV, VDE, UL (IEC 61215 and IEC61730)

Mechanical Characteristics

Cells Size(mm)	156×156
No.of cells	72(6×12)
Modules Size(mm)	1966×992
Frame Thickness(mm)	40 / 46 / 50
Weight(KG)	22.0/ 22.9 / 23.1
No.of Mounting Holes	8
No.of Waterspout	16

Temperature Coefficient

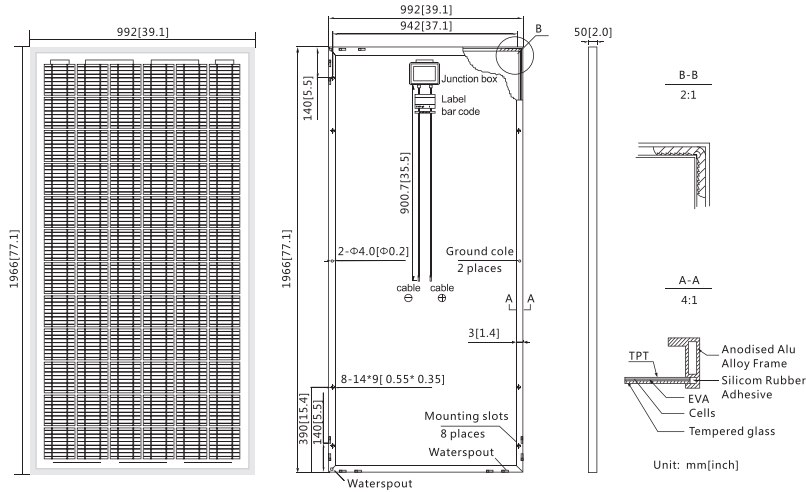
Noct	45°C±2°C
Temperature coefficient of Isc	0.06%/°C
Temperature coefficient of Voc	-0.34%/°C
Temperature coefficient of Pmax	-0.45%/°C
Power Tolerance	0/ + 3%
Working temperature	-40°C to 85°C

PLM-280P-72 SERIES

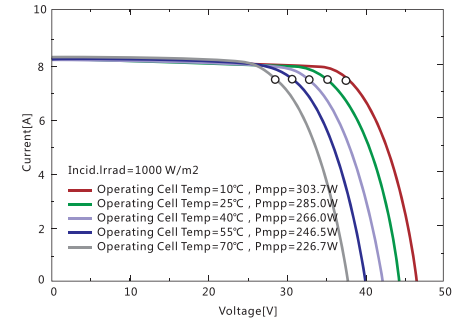
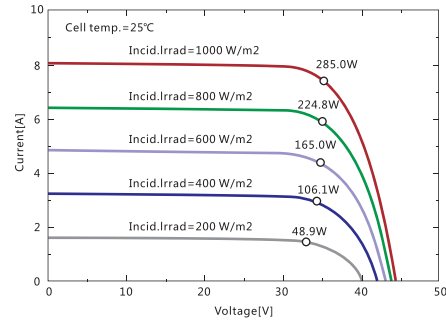
Polycrystalline Silicon Solar Modules



Module Diagram:



Electrical Curves:



Electrical Characteristics: Power range:240w-310w

Module	PLM-270P-72	PLM-275P-72	PLM-280P-72	PLM-285P-72	PLM-290P-72	PLM-295P-72	PLM-300P-72	PLM-305P-72	PLM-310P-72
Pm	270	275	280	285	290	295	300	305	310
Vmp	35.81	36.14	36.56	36.97	37.14	37.58	38.08	38.32	38.47
Imp	7.54	7.61	7.66	7.71	7.81	7.85	7.88	7.96	8.06
Voc	44.14	44.37	44.57	44.65	44.84	44.92	45.10	45.30	45.47
Isc	8.29	8.30	8.33	8.36	8.38	8.47	8.49	8.52	8.60
Maximum system voltage	1000VDC	1000VDC	1000VDC	1000VDC	1000VDC	1000VDC	1000VDC	1000VDC	1000VDC

STC:Irradiance 1000W/m², Temperature 25°C,AM=1.5

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