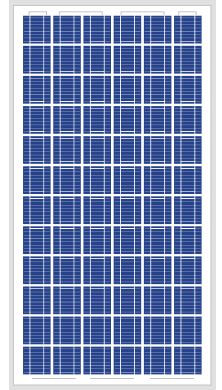


PERLIGHTSOLAR

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
Modules Size(mm)	1966×992×50
No.of cells	72(6×12)
Weight(KG)	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

Package Information

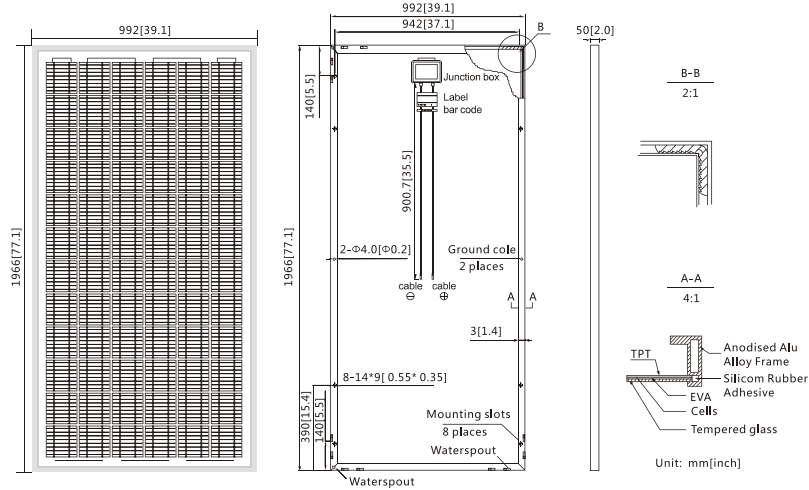
Type	Frame	Pcs/Carton	Cartons/Container	Pcs/Pallet	Pallets/Container	Pcs/Container
40HQ 1966×992 156P 72cells	50	2	22	21	22	506

PLM-280P-72 SERIES

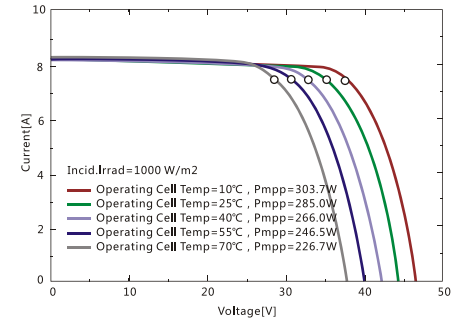
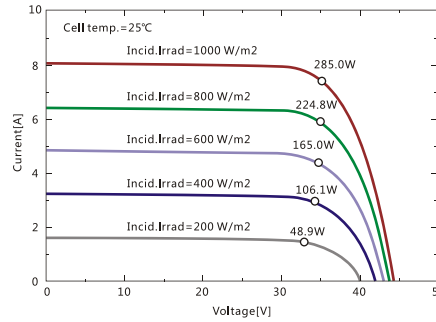
Polycrystalline Silicon Solar Modules



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
P _m	270	275	280	285	290	295	300	305	310
V _{mp}	35.81	36.14	36.56	36.97	37.14	37.58	38.08	38.32	38.47
I _{mp}	7.54	7.61	7.66	7.71	7.81	7.85	7.88	7.96	8.06
V _{oc}	44.14	44.37	44.57	44.65	44.84	44.92	45.10	45.30	45.47
I _{sc}	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

MANUFACTURING BASE

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