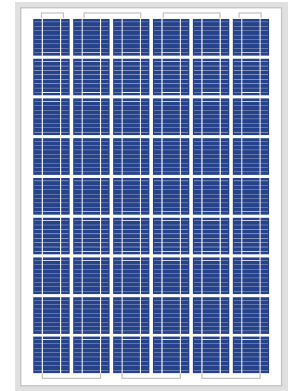


# PERLIGHTSOLAR

## PLM-210P-54 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)	1495×992×40
No.of cells	54(6×9)
Weight(KG)	17
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	1495×992 156P 54 cells	40	2	53	26	28	834

**Note:** This publication summarizes product warranty and specifications, which are subject without notice. Additional information can be found on our website

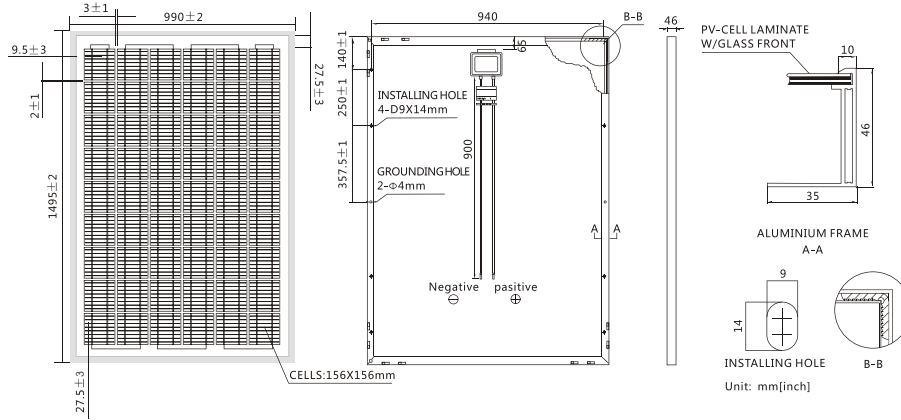
[www.perlight.com](http://www.perlight.com)

# PLM-210P-54 SERIES

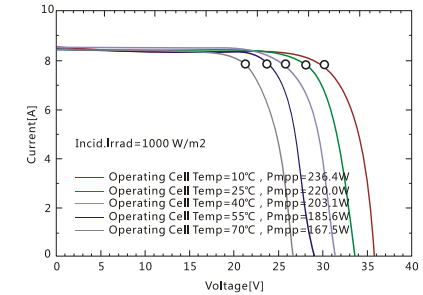
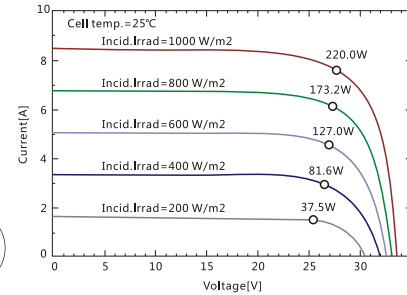
Polycrystalline Silicon Solar Modules



## Module Diagram:



## Electrical Curves:



## Electrical Characteristics: Power range:185w-230w

Module	PLM-200P-54	PLM-205P-54	PLM-210P-54	PLM-215P-54	PLM-220P-54	PLM-225P-54	PLM-230P-54
Pm	200	205	210	215	220	225	230
Vmp	26.60	27.01	27.42	27.75	28.10	28.59	28.75
Imp	7.52	7.59	7.66	7.75	7.83	7.87	8.00
Voc	33.07	33.26	33.41	33.59	33.62	33.81	34.05
Isc	8.28	8.30	8.33	8.38	8.45	8.48	8.54
Maximum system voltage	1000VDC	1000VDC	1000VDC	1000VDC	1000VDC	1000VDC	1000VDC

STC: Irradiance 1000W/m<sup>2</sup>, Temperature 25°C, AM=1.5

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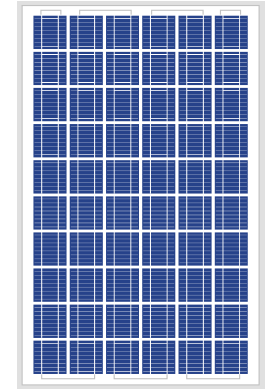


# PERLIGHTSOLAR

## PLM-240P-60 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)	1650×992×46
No.of cells	60(6×10)
Weight(KG)	19.6
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 1650×992 156P 60cells	46	2	28	23	28	700

**Note:** This publication summarizes product warranty and specifications, which are subject without notice. Additional information can be found on our website

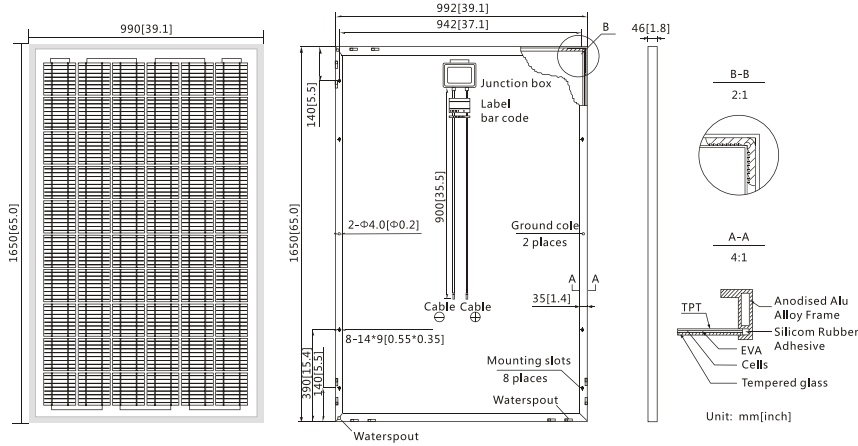
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# PLM-240P-60 SERIES

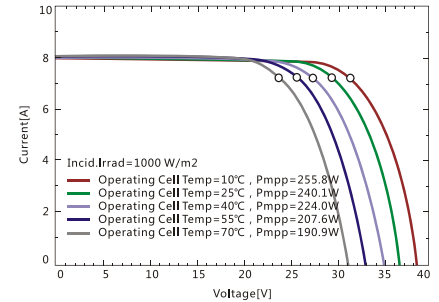
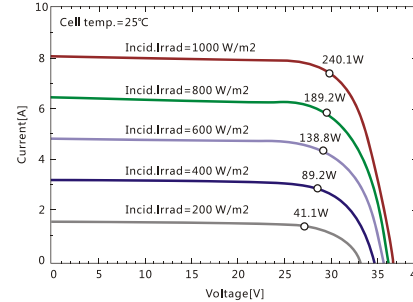
Polycrystalline Silicon Solar Modules



## Module Diagram:



## Electrical Curves:



## Electrical Characteristics: Power range:195w-260w

Module	PLM-225P-60	PLM-230P-60	PLM-235P-60	PLM-240P-60	PLM-245P-60	PLM-250P-60	PLM-255P-60	PLM-260P-60
Pm	225	230	235	240	245	250	255	260
Vmp	29.85	30.15	30.64	30.89	31.29	31.73	31.92	32.10
Imp	7.54	7.63	7.67	7.77	7.83	7.88	7.96	8.10
Voc	36.78	37.00	37.18	37.35	37.42	37.58	37.73	37.92
Isc	8.29	8.30	8.34	8.38	8.45	8.49	8.52	8.64
Maxium system voltage	1000VDC	1000VDC	1000VDC	1000VDC	1000VDC	1000VDC	1000VDC	1000VDC

STC:Irradiance 1000W/m<sup>2</sup>, Temperature 25°C,AM=1.5

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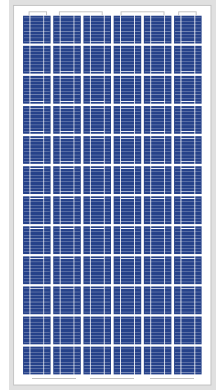


# PERLIGHTSOLAR

## 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

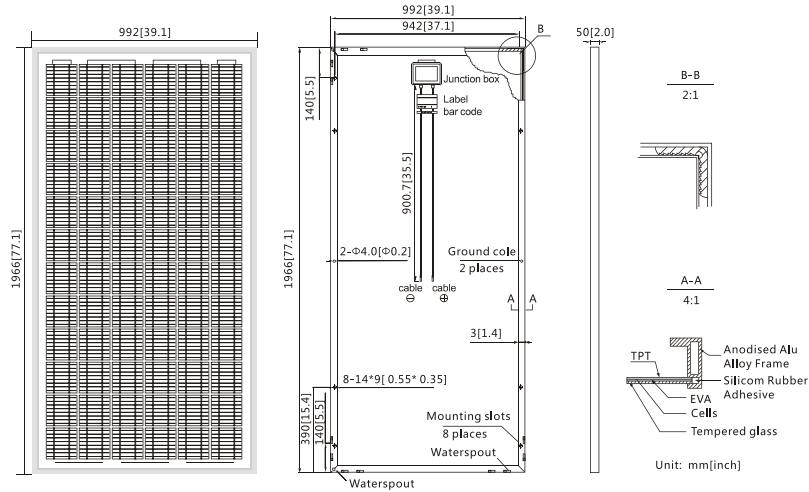
Type	Frame	Pcs/Carton	Cartons/Container	Pcs/Pallet	Pallets/Container	Pcs/Container
40HQ 1966×992 156P 72cells	50	2	22	21	22	506

# PLM-280P-72 SERIES

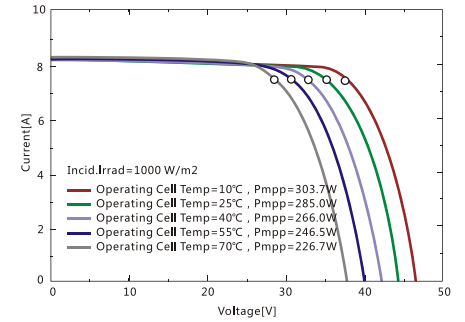
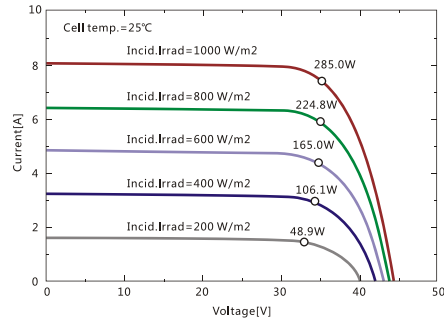
Polycrystalline Silicon Solar Modules



## 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 <sub>m</sub>	270	275	280	285	290	295	300	305	310
V <sub>mp</sub>	35.81	36.14	36.56	36.97	37.14	37.58	38.08	38.32	38.47
I <sub>mp</sub>	7.54	7.61	7.66	7.71	7.81	7.85	7.88	7.96	8.06
V <sub>oc</sub>	44.14	44.37	44.57	44.65	44.84	44.92	45.10	45.30	45.47
I <sub>sc</sub>	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/m<sup>2</sup>, Temperature 25°C,AM=1.5

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