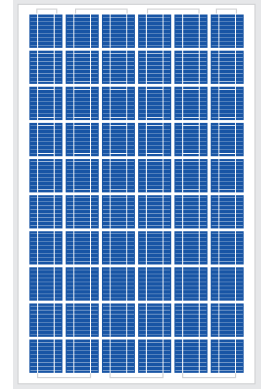


# PERLIGHTSOLAR

## 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, TÜV, VDE, UL (IEC 61215 and IEC61730)

### Mechanical Characteristics

|                      |                    |
|----------------------|--------------------|
| Cells Size(mm)       | 156×156            |
| No.of cells          | 60(6×10)           |
| Modules Size(mm)     | 1650×992           |
| Frame Thickness(mm)  | 35 / 40 / 46       |
| Weight(KG)           | 18.2 / 18.5 / 19.6 |
| No.of Mounting Holes | 8                  |
| No.of Waterspout     | 16                 |

### Temperature Coefficient

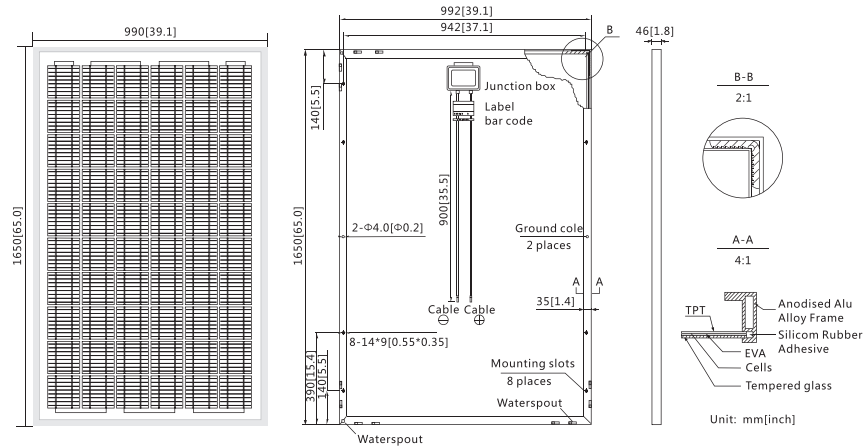
|                                 |               |
|---------------------------------|---------------|
| Noct                            | 45°C±2°C      |
| Temperature coefficient of Isc  | 0.06%/°C      |
| Temperature coefficient of Voc  | -0.34%/°C     |
| Temperature coefficient of Pmax | -0.45%/°C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

# PLM-240P-60 SERIES

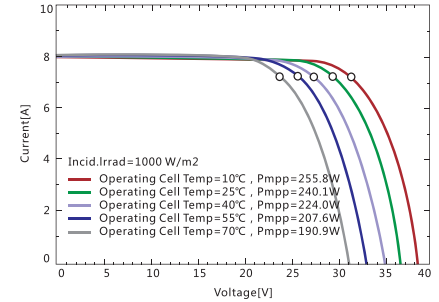
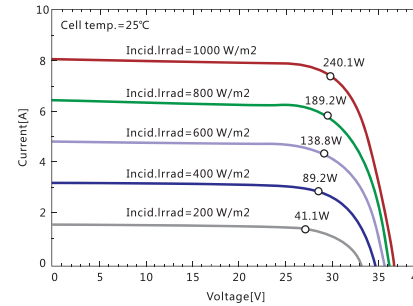
Polycrystalline Silicon Solar Modules



## 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

## MANUFACTURING BASE

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