

# SLP090-12F

## High Efficiency Polycrystalline PV Module

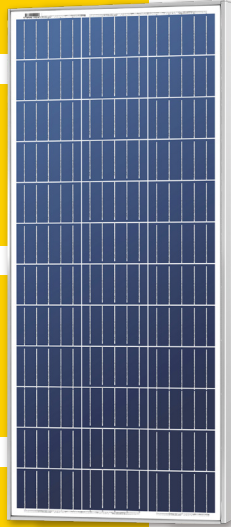
- Nominal 12V DC for standard output.
- Outstanding low-light performance.
- Heavy-duty anodized frames.
- High transparent low-iron, tempered glass.
- Designed to withstand high wind pressures, hail and heavy snow.
- Quality aesthetic appearance.

**36 CELL**  
POLYCRYSTALLINE MODULE

**90W**  
POWER OUTPUT

**20.00%**  
MODULE EFFICIENCY

**5%**  
POSITIVE TOLERANCE



**High Efficiency**

Module Efficiency improved through advanced cell technology and manufacturing capabilities



**High PID Resistance**

Advanced cell technology and qualified materials lead to high resistance to PID



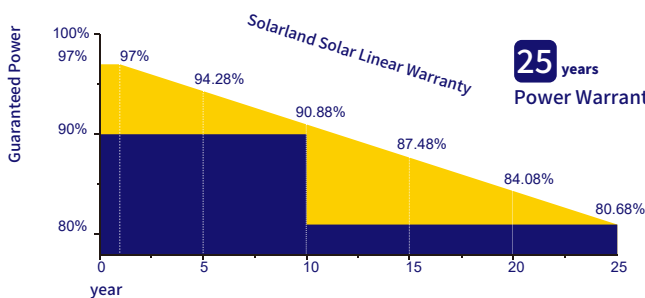
**Withstands Harsh Environment**

High PID resistance  
5400 Pa positive load  
2400 Pa negative load  
Salt mist (IEC 61701)

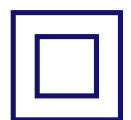
### Performance Warranty

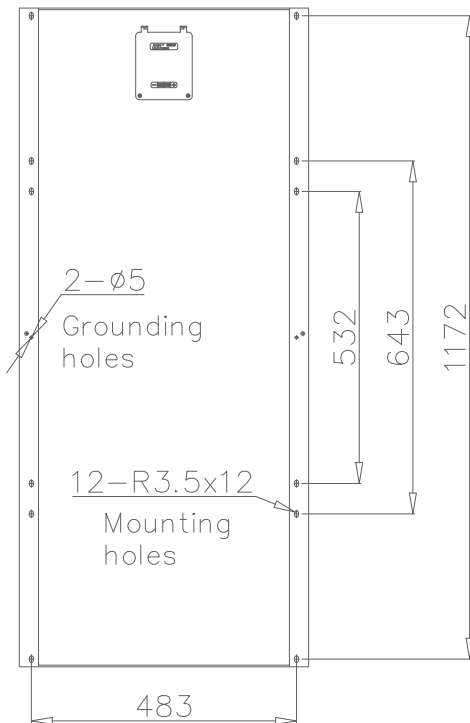
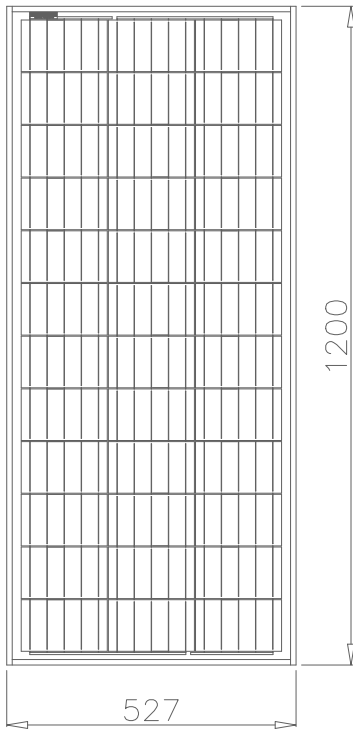
**10 years**  
Product Warranty

**25 years**  
Power Warranty



|                          |   |
|--------------------------|---|
| Product Certificate      | IEC 61215, IEC 61730                    |
| Management Certificate   | ISO 9001: 2016                          |
| Other certificate        | Fire Rating Class C, TÜV Rheinland      |
| Positive mechanical load | >5400Pa                                 |
| Positive Power Tolerance | 0~+5W                                   |
| Warranty Information     | 2 Year Product Warranty and Workmanship |



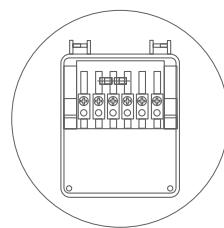


Dimensions in brackets are in inches.  
Un-bracketed dimensions are in millimeters.  
Unit: mm[in.]

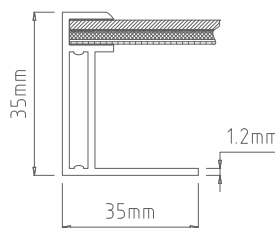
| Electrical Characteristics              | SLP090-12F        |
|---|-------------------|
| Product code                            | 090011208         |
| Maximum power (Pmax)                    | 90W               |
| Voltage at Pmax (Vmp)                   | 17.20V            |
| Current at Pmax (Imp)                   | 5.23A             |
| Open-circuit voltage (Voc)              | 21.60V            |
| Short-circuit current (Isc)             | 5.81A             |
| Temperature coefficient of Voc          | -(80±10)mV/°C     |
| Temperature coefficient of Isc          | (0.065±0.015)%/°C |
| Temperature coefficient of power        | -(0.5±0.05)%/°C   |
| NOCT (Air 20°C; Sun 0.8kW/m² wind 1m/s) | 47±2°C            |
| Operating temperature                   | -40°C to 85°C     |
| Maximum system voltage                  | 1000V DC          |
| Power tolerance                         | ± 5%              |

\*STC: Irradiance 1000W/m², AM1.5 spectrum, module temperature 25°C  
\*NOCT: Nominal operating cell temperature (the data is only for reference)

| Specifications               | SLP090-12F   |
|------------------------------|--|
| Cells                        | Polycrystalline silicon solar cell                       |
| No. of cells and connections | 36(3X12)   |
| Module dimension             | 1200mm[47.24in.]x527mm[20.75in.]x35mm[1.38in.]           |
| Weight                       | 7.27kg[16.02lbs]   |
| Packing information(Carton)  | 1345mm[52.95in.]x575mm[22.64in.]x85mm[3.35in.]/(1pc/ctn) |

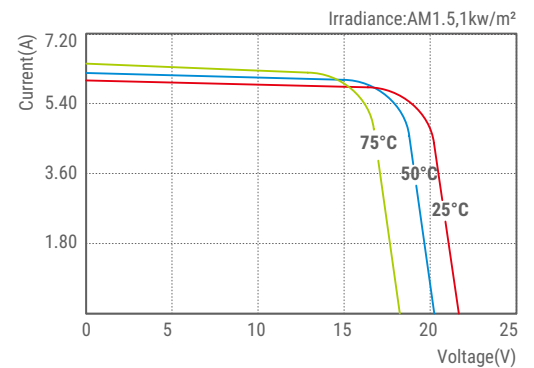


Junction Box  
Top View (Lid Open)



Section A-A

Characteristics



SLP090-12F I-V Curves