

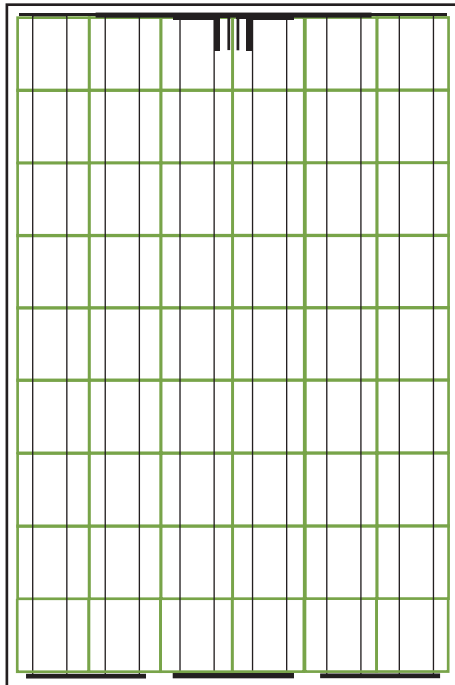


**invensun**  
change the world

**sundragon™ i210-54P**

**Premium Grade**  
Poly-crystalline Solar Modules

Model Name **i210-54P**



**210W**

Invensun Sundragon Premium Solar Panels are designed to the standards required for extreme weather and heavy-duty applications. With the highest-quality construction, Invensun solar panels guarantees that, year-over-year, you will receive reliable power generation, allowing a greater return-on-investment.

- Microwave / radio repeater stations
- Railroad signals
- Sailboat charging systems
- Medical facilities in rural areas
- Cathodic protection systems
- Emergency communication systems
- Air monitoring
- Navigation lighthouses, and ocean buoys
- Wireless Data
- Aviation obstruction lights
- Emergency communication systems
- Telecom
- Security
- Desalination systems
- Recreational vehicles
- Water quality and environmental data monitoring systems
- Pumping systems for irrigation, rural water supplies and livestock watering

**Environmental Characteristics**

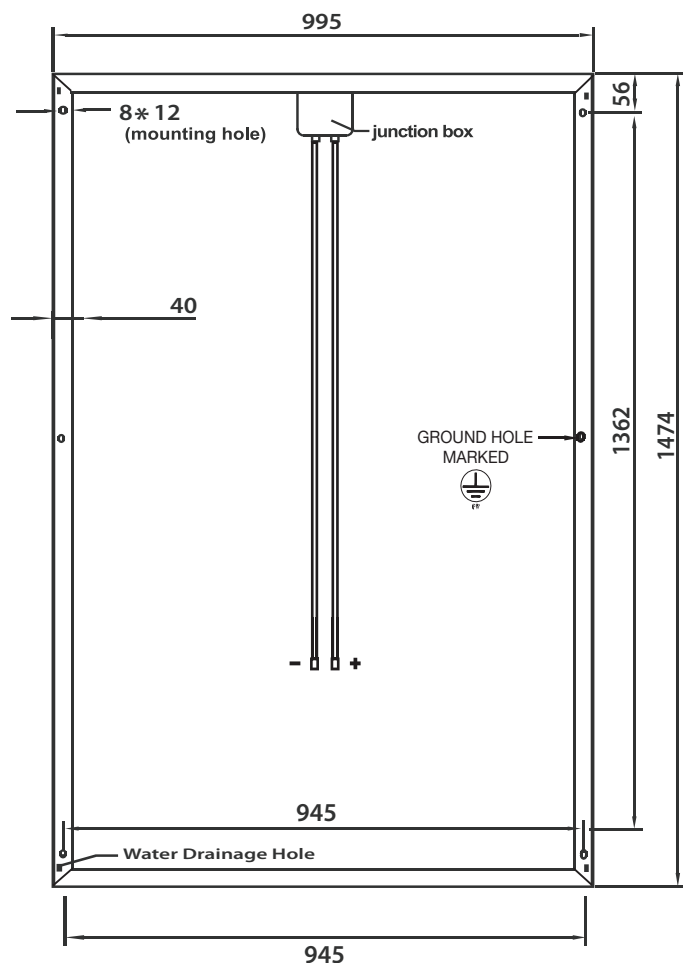
Mechanical Load	2400 Pa
Fire Rating	Class C
Operating Temperature	-40 to +85 °C

**Warranty**

Product Workmanship	5 years
10 Years	90% output
25 Years	80% output

ISO 9001 factory certification ensures that our manufacturing facilities use proven manufacturing and control processes.

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**210W**

## Parameters

### Electrical Characteristics

Maximum Power at STC (Pmax)	210W
Optimum Operating Voltage (Vmp)	27.43V
Optimum Operating Current (Imp)	7.66A
Open Circuit Voltage (Voc)	32.94 V
Short Circuit Current (Isc)	8.17 A
Maximum System Voltage	DC 600V
Maximum Series Fuse Rating	15A
Power Tolerance	±5%

### Temperature Coefficients

Nominal Operating Cell Temperature	46°C, ±2°C
Maximum Power (Pmax) Coefficient	-0.45%/°C, ±0.05
Short Circuit Current (Isc) Coefficient	-0.6%/°C, ±0.015
Open Circuit Current (Voc) Coefficient	-0.35%/°C, ±0.05

### Mechanical Characteristics

Solar Cell Type	Polycrystalline Silicon
Solar Cell Size	156mm x 156mm
Number of Solar Cells	54
Junction Box	IP-65 rated
Cables	12AWG (4mm <sup>2</sup> )
Connectors	MC4
Diode	3 bypass diodes
Front Glass	3.2mm tempered glass
Frame	Anodized Aluminum Alloy
Dimensions L x W x D	1474 x 995 x 40 mm
Weight	18.0kg



### Standard Test Conditions (STC)

STC = 1000 W/M<sup>2</sup> irradiance, 25°C module temperature,

AM1.5 spectrum (Subject to simulator measurement uncertainty of ±3%)