

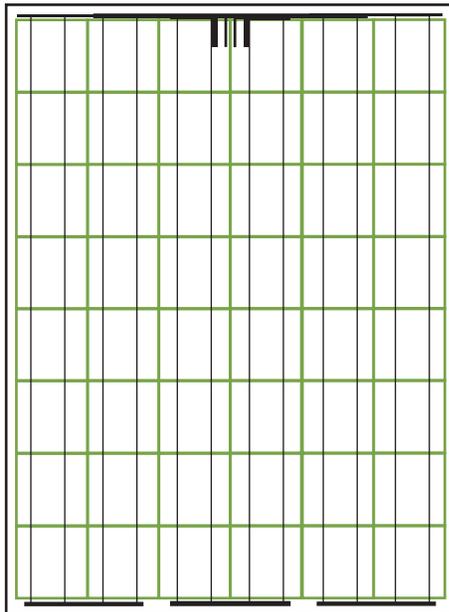


invensun
change the world

sundragon™ i170-48P

Premium Grade Poly-crystalline Solar Modules

Model Name **i170-48P**



170W

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

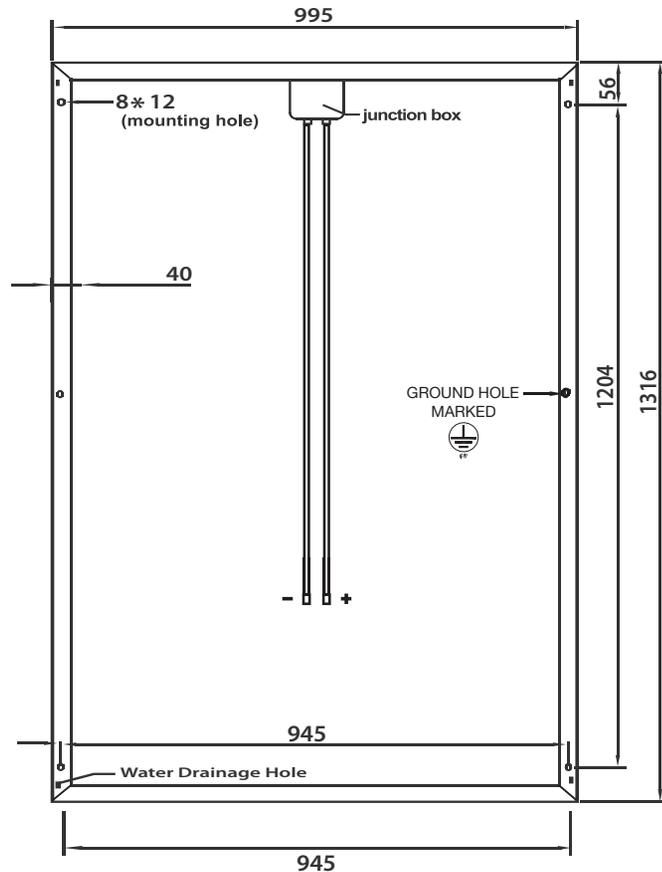
Mechanical Load	2400 Pa
Fire Rating	Class C
Operating Temperature	-40 to +85 °C

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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Parameters

Electrical Characteristics

Maximum Power at STC (Pmax)	170W
Optimum Operating Voltage (Vmp)	23.81V
Optimum Operating Current (Imp)	7.14A
Open Circuit Voltage (Voc)	28.80V
Short Circuit Current (Isc)	7.72A
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	48
Junction Box	IP-65 rated
Cables	12AWG (4mm ²)
Connectors	MC4
Diode	3 bypass diodes
Front Glass	3.2mm tempered glass
Frame	Anodized Aluminum Alloy
Dimensions L x W x D	1316 x 995 x 40 mm
Weight	17.0kg



Standard Test Conditions (STC)

STC = 1000 W/M² irradiance, 25°C module temperature,

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