

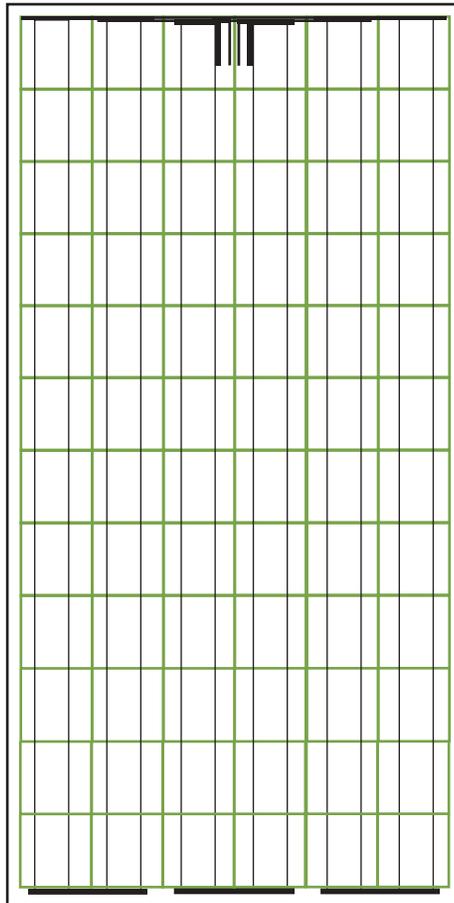


invensun
change the world

sundragon™ i300-72P

Premium Grade
Poly-crystalline Solar Modules

Model Name **i300-72P**



300W

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.

- Resident roof top systems
- Resident roof top systems
- Water pumping stations
- High voltage stand alone systems
- Electrification of villages in remote areas
- Air monitoring
- Medical facilities in rural areas
- Wireless Data
- Power source for summer vacation homes
- Emergency communication systems
- Telecom
- Security
- Obstruction Lighting
- Traffic
- Water quality and environmental data monitoring systems

Warranty

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

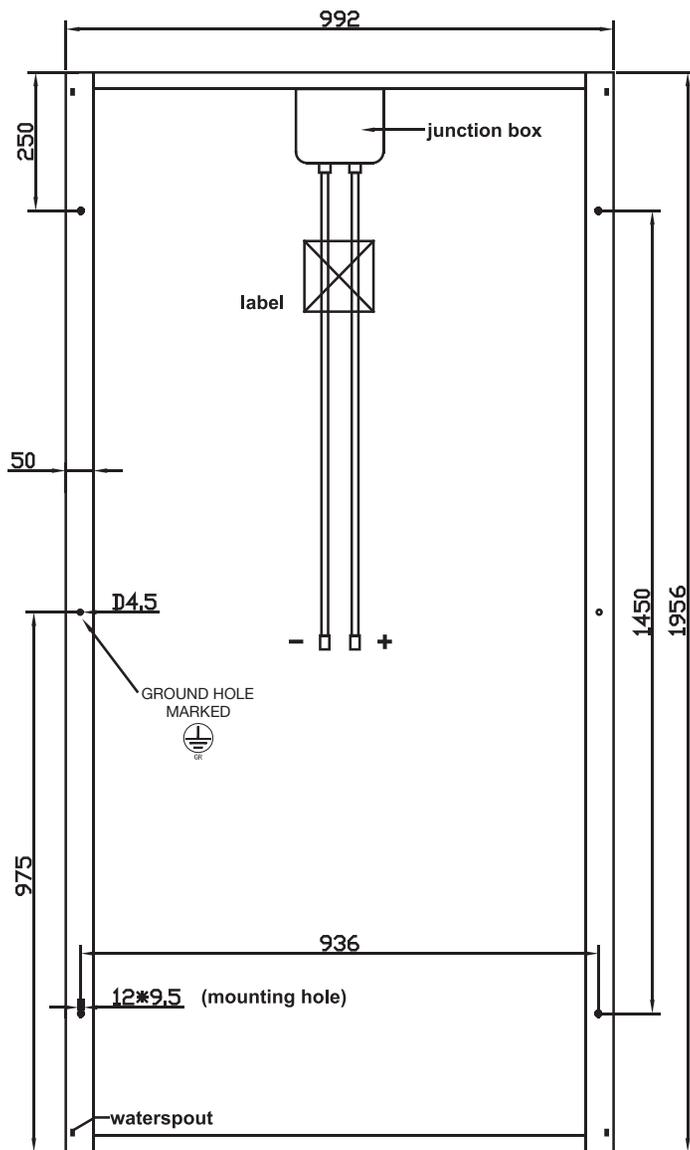
ISO 9001 factory certification ensures that our manufacturing facilities use proven manufacturing and control processes.

Environmental Characteristics

Mechanical Load	5400 Pa
Fire Rating	Class C
Operating Temperature	-40 to +85 °C

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Parameters

Electrical Characteristics

Maximum Power at STC (Pmax)	300W
Optimum Operating Voltage (Vmp)	37.50V
Optimum Operating Current (Imp)	7.99A
Open Circuit Voltage (Voc)	45.70V
Short Circuit Current (Isc)	8.55A
Nominal Voltage	24Vdc
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	72
Junction Box	IP-65 rated
Cables	12AWG (4mm ²)
Connectors	MC4
Diode	6 bypass diodes
Front Glass	4 mm tempered glass
Frame	Anodized Aluminum Alloy
Dimensions L x W x D	1956 x 992 x 50 mm
Weight	23.0kg



Standard Test Conditions (STC)

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

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