



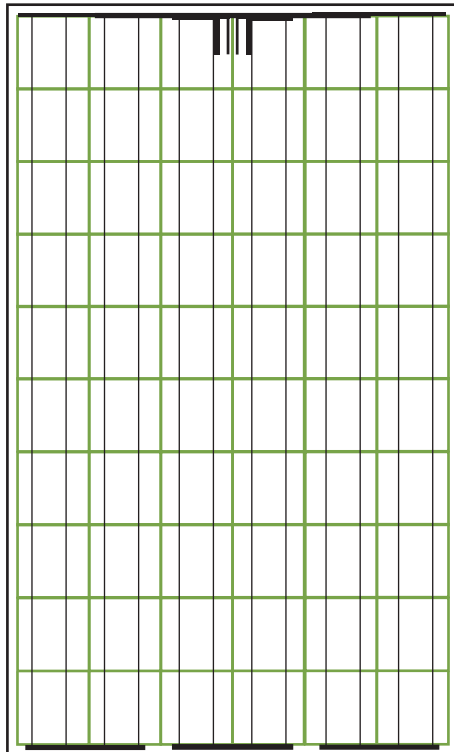
**invensun**  
change the world

**sundragon™ i250-60P**

**Premium Grade**  
Poly-crystalline Solar Modules

Model Name **i250-60P**

Invensun Sundragon Premium Grade Solar Panels are designed to withstand extreme weather and endure heavy-duty applications.



**250W**

- Residential roof top systems
- Commercial 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

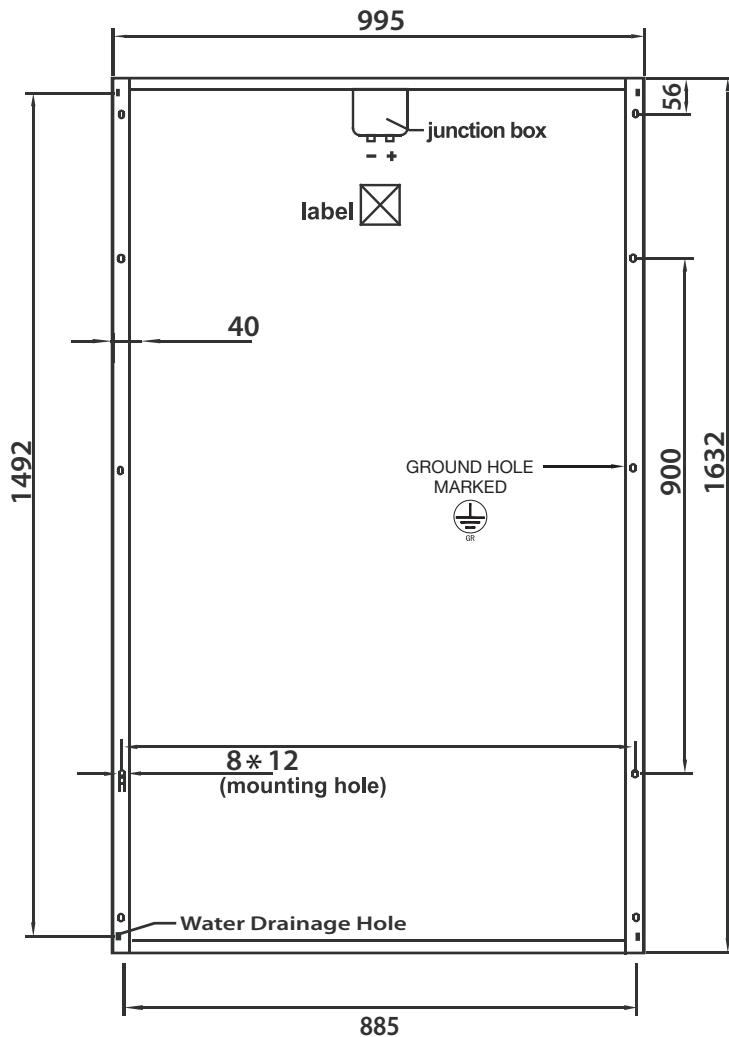
ISO 9001 compliant manufacturing facility

**Environmental Characteristics**

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

sundragon™ i250-60P

## Premium Grade Poly-crystalline Solar Modules



# 250W

## Parameters

### Electrical Characteristics

Maximum Power at STC (Pmax)	250W
Optimum Operating Voltage (Vmp)	31.14V
Optimum Operating Current (Imp)	8.03A
Open Circuit Voltage (Voc)	37.32V
Short Circuit Current (Isc)	8.50A
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	60
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	1632 x 995 x 40 mm
Weight	20.0kg



### 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%)