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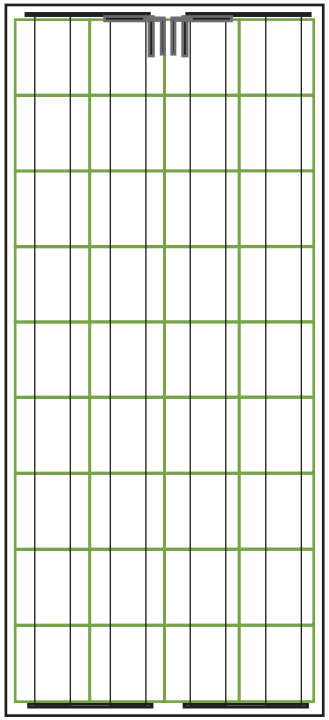
sundragon™ i135-36P

Premium Grade

Poly-crystalline Solar Modules

Model Name **i135-36P**



135W

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

- 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 compliant manufacturing facility

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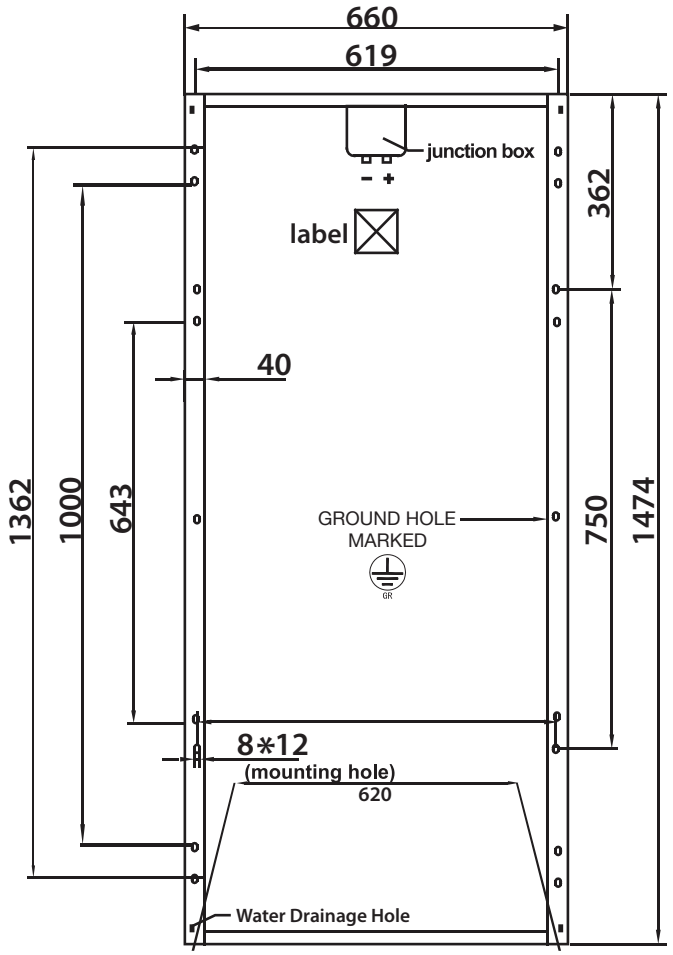

135W

Parameters

Electrical Characteristics

Maximum Power at STC (Pmax)	135W
Optimum Operating Voltage (Vmp)	18.14V
Optimum Operating Current (Imp)	7.44A
Open Circuit Voltage (Voc)	21.74V
Short Circuit Current (Isc)	8.04A
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	36
Junction Box	IP-65 rated
Cables	12AWG (4mm²)
Connectors	MC4
Diode	2 bypass diodes
Front Glass	3.2mm tempered glass
Frame	Anodized Aluminum Alloy
Dimensions L x W x D	1474 x 660 x 40 mm
Weight	12.0kg

Standard Test Conditions (STC)

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

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

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