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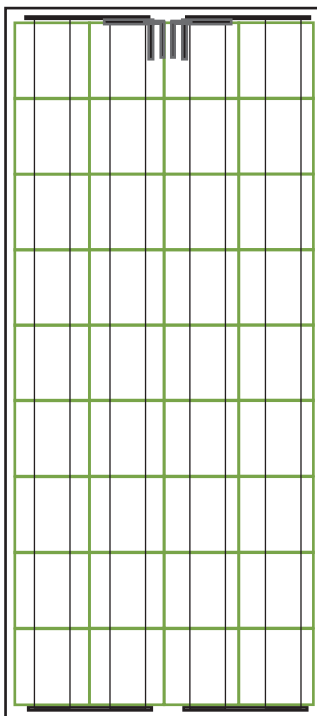
sundragon™ i145-36P

Hazardous Grade C1D2
Poly-crystalline Solar Modules

Model Name **i145-36P**

Hazardous Area Protection
Class 1 Division 2, Groups A, B, C, D
Temperature Classification T4

Safe for use in hazardous locations where explosive gases, vapors and liquids may be present.



145W

- Gas wellheads
- Gas pipelines
- Tank Farms
- Oil refineries
- Offshore oil platforms
- Air monitoring
- Monitoring/SCADA
- Wireless Data
- Gas Detection
- Cathodic Protection
- Mining
- Telecom
- Industrial Electrical Applications
- Security
- Obstruction Lighting
- Traffic

Warranty

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

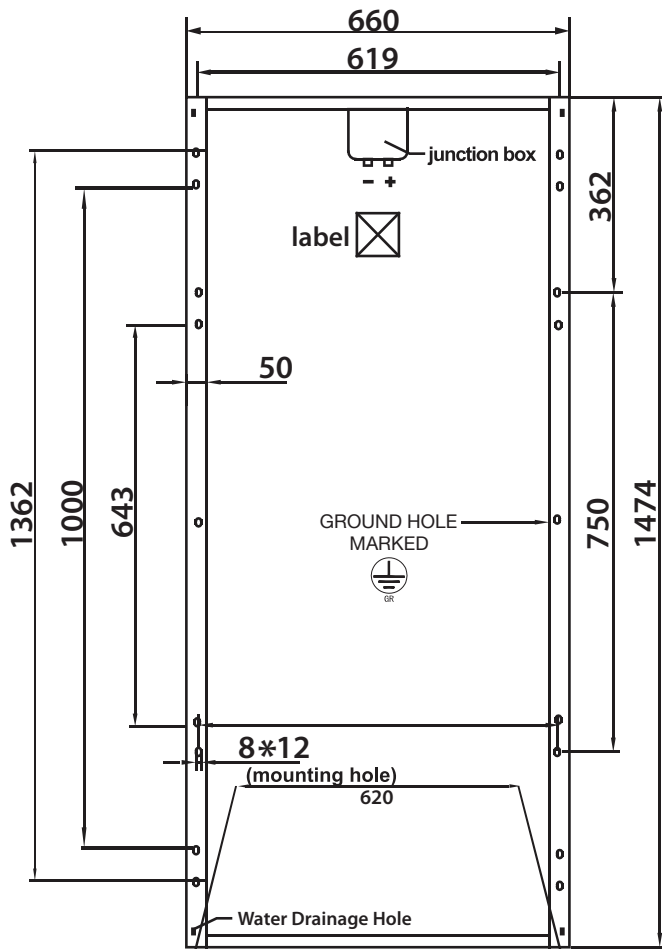
Environmental Characteristics

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

ISO 9001 compliant manufacturing facility

Hazardous Grade C1D2

Poly-crystalline Solar Modules



145W

Parameters

Electrical Characteristics

Maximum Power at STC (Pmax)	145W
Optimum Operating Voltage (Vmp)	18.50V
Optimum Operating Current (Imp)	7.84A
Open Circuit Voltage (Voc)	22.18V
Short Circuit Current (Isc)	8.39A
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	N/A
Connectors	N/A
Diode	2 bypass diodes
Front Glass	3.2mm tempered glass
Frame	Anodized Aluminum Alloy
Dimensions L x W x D	1474 x 660 x 50 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%)