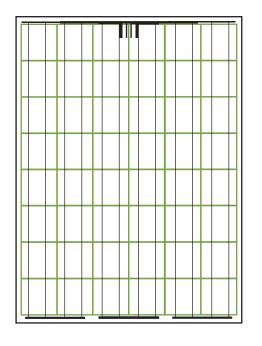


Model Name i190-48P



## **Environmental Characteristics**

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

# **190W**

## **Eurodrogon™ i190-48P** Premium Grade Poly-crystalline Solar Modules

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

## Warranty

Product Workmanship
10 Years
25 Years

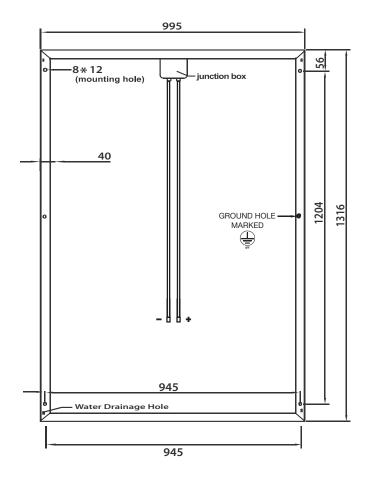
ISO 9001 factory certification ensures that our manufacturing facilities use proven manufacturing and control processes.

5 years 90% output

80% output



## Premium Grade Poly-crystalline Solar Modules



## Parameters

**190W** 

## **Electrical Characteristics**

Maximum Power at STC (Pmax)	190W
Optimum Operating Voltage (Vmp)	24.53V
Optimum Operating Current (Imp)	7.75A
Open Circuit Voltage (Voc)	29.47 V
Short Circuit Current (Isc)	8.32 A
Maximum System Voltage	DC 600V
Maximum Series Fuse Rating	15A
Power Tolerance	±5%

#### **Temperature Coefficients**

Nominal Operating Cell Temperature Maximum Power (Pmax) Coefficient Short Circuit Current (Isc) Coefficient Open Circuit Current (Voc) Coefficient

46°C, ±2°C -0.45%/°C. ±0.05 -0.6%/°C. ±0.015 -0.35%/°C, ±0.05

### Mechanical Characteristics

Solar Cell Type Solar Cell Size Number of Solar Cells Junction Box Cables Connectors Diode Front Glass Frame Dimensions L x W x D Weight

Polycrystalline Silicon 156mm x 156mm 48 IP-65 rated 12AWG (4mm<sup>2</sup>) MC4 3 bypass diodes 3.2mm tempered glass Anodized Aluminum Alloy 1316 x 995 x 40 mm 17.0kg



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%)



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