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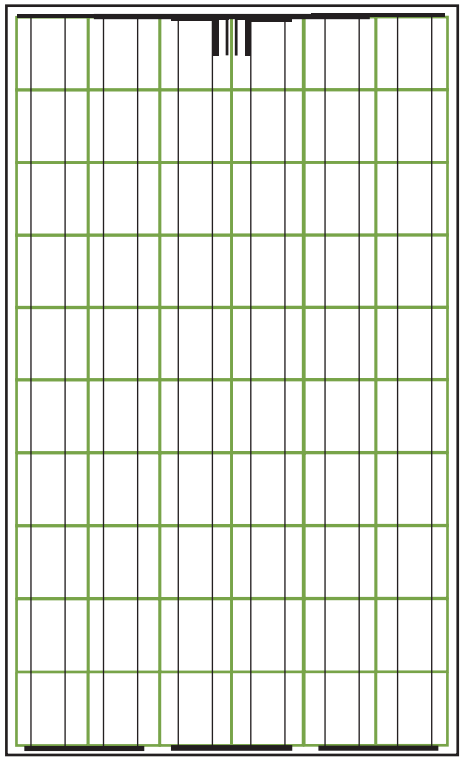
# sundragon™ i230-60P

## Premium Grade

Poly-crystalline Solar Modules

Model Name **i230-60P**



**230W**

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

- 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

### Environmental Characteristics

| | |
|---|---|
| Mechanical Load | 5400 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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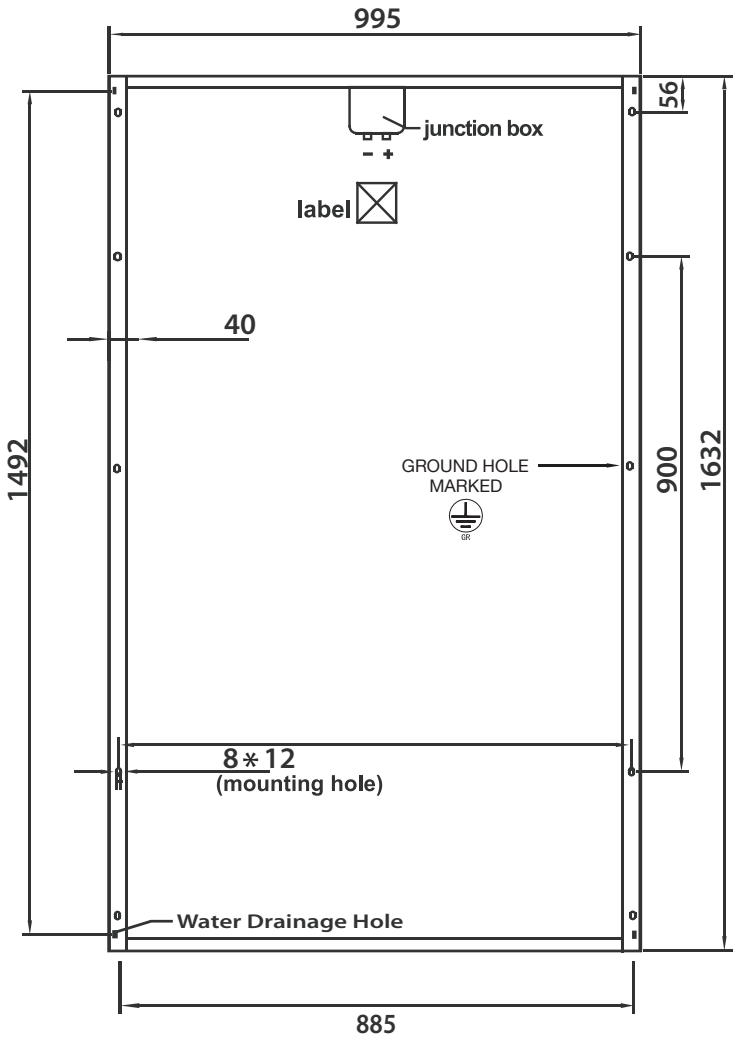


**230W**

## Parameters

### Electrical Characteristics

| | |
|---|---|
| Maximum Power at STC (Pmax) | 230W |
| Optimum Operating Voltage (Vmp) | 30.36V |
| Optimum Operating Current (Imp) | 7.58A |
| Open Circuit Voltage (Voc) | 36.42V |
| Short Circuit Current (Isc) | 8.10A |
| 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 (4mm²) |
| 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/M² irradiance, 25°C module temperature,*

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



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