# SOLAR MODULE
# 310 W

IREX
a member of SolarBK

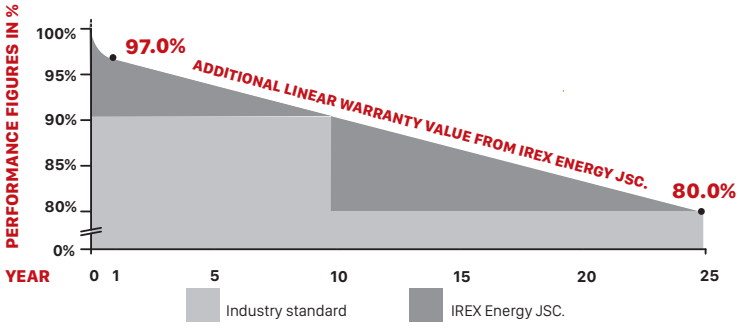
## 60 CELLS-MONOCRYSTALLINE


### ADVANCED PERC CELL TECHNOLOGY
Absorbing more light, High module efficiency
Low breakage rate, Annual power degradation 0.7%

### FAST & SAFE
Easy installation and handling
Environmentally friendly

### MODULE DURABILITY
5400 Pa snow load, 2400 Pa wind load
Ideal for PV rooftops, ground mount, floating

### THE #1 DOMESTIC PV MANUFACTURER IN VIETNAM
100% Automatic production line
International quality PV technology




Munich RE

**12 - years** Material & workmanship

**25 - years** Linear power Output

## CERTIFICATES

**IEC 61215:** Terrestrial photovoltaic (PV) modules – Design qualification and type approval
**IEC 61730:** Photovoltaic (PV) module safety qualification
**UL 1703, ULC/ORD-C1703:2018:** Standard for Flat-Plate Photovoltaic Modules and Panels
**IS 14286:2010:** Crystalline Silicon Terrestrial Photovoltaic (PV) Modules - Design Qualification and Type Approval
**IEC 61701:** Salt mist corrosion testing of PV Modules
**IEC 62716:** Photovoltaic modules - Ammonia corrosion testing
**ISO 9001:2015:** Quality Management System
**ISO 14001:2015:** Environmental Management System

## HIGH QUALITY FOR PROSPERITY

**IREX Energy Joint Stock Company** produces the **#1 Vietnamese-Made** Photovoltaic (PV) modules, internationally certified with excellent performance and flexible in customization per demand.

Going solar requires a long-term commitment. For this, all our solar modules are **insured by MunichRe**, world's best reinsurance provider. You can sit back, relax and enjoy the sunshine; as our company and warranty partner will **always be with you in 25 years!**

With **the finest price and customer service** can only be found at IREX Joint Stock Company, we look forward to working with you soon!

**IREX ENERGY JOINT STOCK COMPANY**
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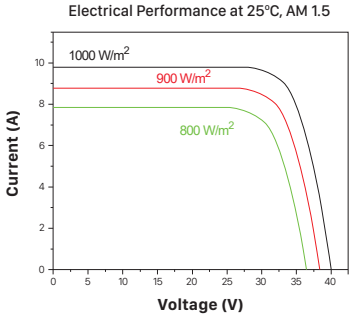
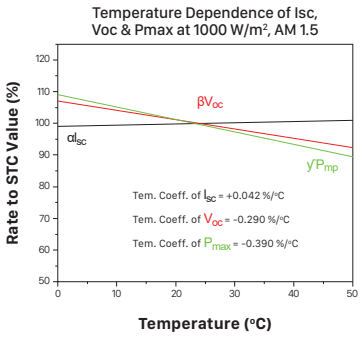
## PERFORMANCE




## ELECTRICAL CHARACTERISTICS STC — IRM60S-310

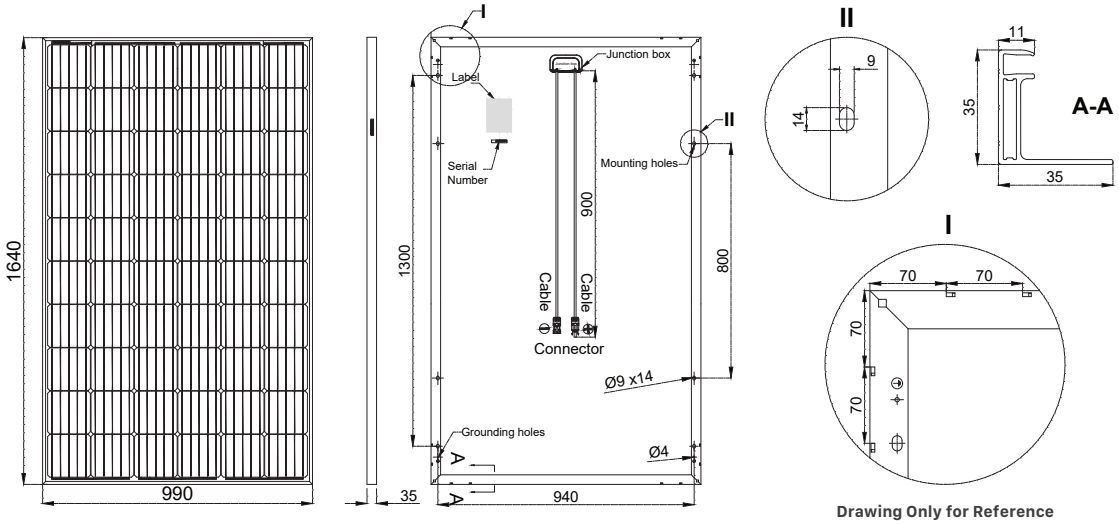
| | |
|---|---|
| Maximum Power (Pmax) | 310 W |
| Power Tolerance | 0 ~ 3 % |
| Module Efficiency | 19.09 % |
| Maximum Power Current (Imp) | 9.38 A |
| Maximum Power Voltage (Vmp) | 33.05 V |
| Short Circuit Current (Isc) | 9.92 A |
| Open Circuit Voltage (Voc) | 40.71 V |
| Module Fire Performance | Type 1 (UL 1703) or Class C (IEC 61730) |

Values at Standard Test Conditions
(STC: AM 1.5 Spectrum, Irradiance of 1000 W/m², Cell Temperature 25°C)

## ELECTRICAL CHARACTERISTICS NMOT — IRM60S-310

| | |
|---|---|
| Maximum Power (Pmax) | 226 W |
| Maximum Power Current (Imp) | 7.41 A |
| Maximum Power Voltage (Vmp) | 30.50 V |
| Short Circuit Current (Isc) | 7.92 A |
| Open Circuit Voltage (Voc) | 37.78 V |

Values at Nominal Module Operating Temperature
(NMOT: AM 1.5 Spectrum, Irradiance of 800 W/m², Ambient Temperature 20°C, Wind Speed 1 m/s)




Drawing Only for Reference

## MECHANICAL CHARACTERISTICS

| | |
|---|---|
| Cell Type | 156.75 x 156.75 mm Monocrystalline, 60 (6 x 10) pcs in series |
| Front Cover | 3.2 mm High Transmission, Low Iron, Tempered Glass with Anti-Reflective Coating |
| Back Cover | Composite film |
| Frame | Anodized Aluminum Alloy type 6063-T5 (Silver/ Black) |
| Junction Box | 3 bypass diodes, IP 68 rated in accordance with IEC 62790 |
| Dimension | 1640 x 990 x 35 mm |
| Output Cable | 4 mm² (IEC)/ 12 AWG (UL), 900 mm in accordance with IEC 62852 |
| Weight | 19 kg (approx) |
| Connector | MC4 Compatible |

## PACKING INFORMATION

| Container | 20' GP | 40' GP | 40' HQ |
|---|---|---|---|
| Pallets per Container | 12 | 28 | 28 |
| Pieces per Container | 360 | 840 | 896 |

## OPERATING CONDITIONS

| | |
|---|---|
| Operating Temperature | -40°C ~ +85°C |
| Maximum System Voltage | 1500 VDC (IEC)/ 1500 VDC (UL) |
| Maximum Series Fuse Rating | 20 A (IEC)/ 20 A (UL) |
| NMOT | 45°C ± 2°C |
| Application Class | Class A |