

# SOLAR MODULE 400 W



**72 CELL  
BIFACIAL 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



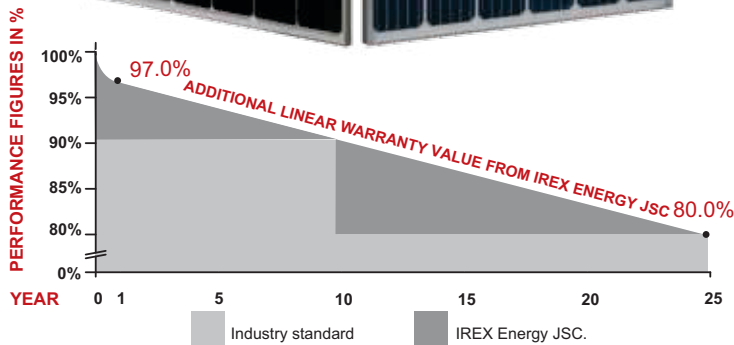
### MODULE DURABILITY

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



## CERTIFICATES



ID 44 100 21 94 0003



ISO 14001:2015  
Environmental  
Management  
System  
qms.com.au  
AN: 514109488A

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!**

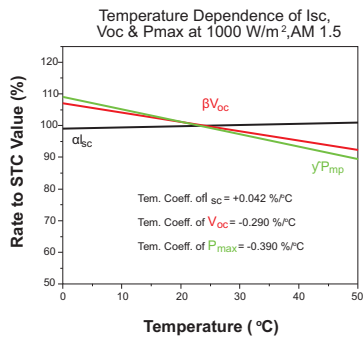
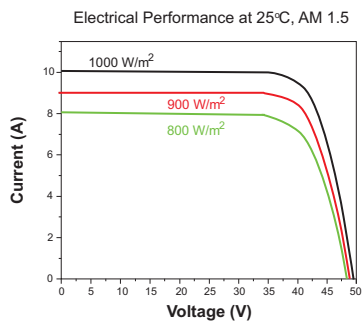
With the **finest price and customer service** can only be found at IREX Joint Stock Company, we look forward to working with you soon!

### IREX ENERGY JOINT STOCK COMPANY

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## PERFORMANCE



## ELECTRICAL CHARACTERISTICS STC

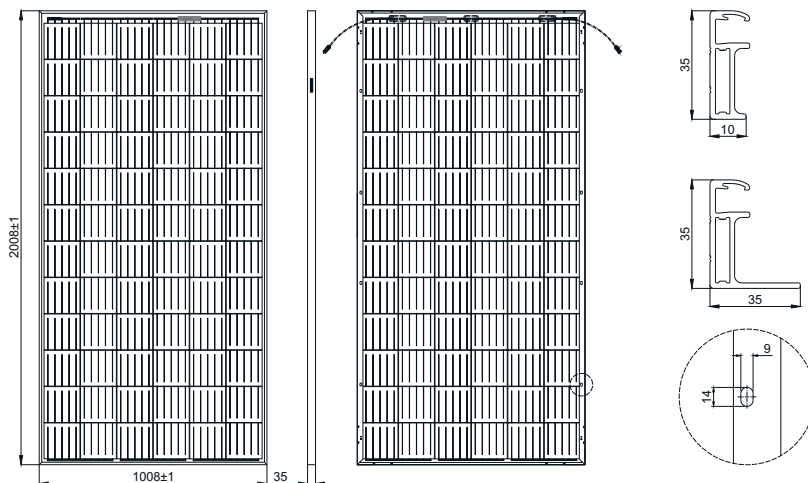
IRM72B1-400

|   |         |
|---|---------|
| Maximum Power ( $P_{max}$ )   | 490 W   |
| Power Tolerance ( $W_p$ )   | 0 ~ 3 % |
| Module Efficiency   | 19.40 % |
| Maximum Power Current ( $I_{mp}$ )  | 9.60 A  |
| Maximum Power Voltage ( $V_{mp}$ )  | 41.7 V  |
| Short Circuit Current ( $I_{sc}$ )  | 10.12 A |
| Open Circuit Voltage ( $V_{oc}$ )   | 49.5 V  |
| Values at Standard Test Conditions<br>(STC: AM 1.5 Spectrum, Irradiance of 1000 W/m <sup>2</sup> , Cell Temperature 25°C) |         |

## ELECTRICAL CHARACTERISTICS NMOT

IRM72B1-400

|  |        |
|--|--------|
| Maximum Power ( $P_{max}$ )  | 299 W  |
| Maximum Power Current ( $I_{mp}$ )   | 7.75 A |
| Maximum Power Voltage ( $V_{mp}$ )   | 38.7 V |
| Short Circuit Current ( $I_{sc}$ )   | 8.16 A |
| Open Circuit Voltage ( $V_{oc}$ )  | 45.8 V |
| Values at Nominal Module Operating Temperature<br>(NMOT: AM 1.5 Spectrum, Irradiance of 800 W/m <sup>2</sup> , Ambient Temperature 20°C, Wind Speed 1 m/s) |        |



Drawing Only for Reference

## MECHANICAL CHARACTERISTICS

|              |  |
|--------------|--|
| Cell Type    | 158.75 x 158.75 mm Bifacial Monocrystalline, 72 (6 x 12) pcs in series                   |
| Front Cover  | 2.0 mm High Transmission, Low Iron, Tempered Glass with Anti-Reflective Coating          |
| Back Cover   | 2.0 mm High Transmission, Low Iron, Tempered Glass with Anti-Reflective Coating          |
| Frame        | Anodized Aluminum Alloy type 6063 - T5 (Silver)  |
| Junction Box | 3 bypass diodes, IP 68 rated in accordance with IEC 62790                                |
| Dimension    | 2008 x 1008 x 35 mm  |
| Output Cable | 4 mm <sup>2</sup> , 250mm(+)/ 350mm(-) or Customized Length in accordance with IEC 62852 |
| Weight       | 26.5 kg (approx)   |
| Connector    | MC4 Compatible   |

## PACKING INFORMATION

|                       |        |        |        |
|-----------------------|--------|--------|--------|
| Container             | 20' GP | 40' GP | 40' HQ |
| Pallets per Container | 10     | 22     | 22     |
| Pieces per Container  | 300    | 660    | 660    |

## OPERATING CONDITIONS

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