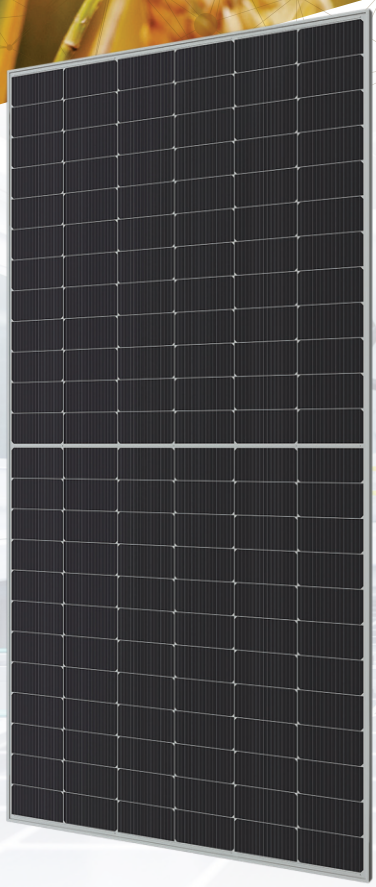
# SOLAR MODULE
# 775 - 800 W

## G12R - TOPCON Bifacial Halfcut Module With Double Glass



### N-TYPE TOPCON CELL TECHNOLOGY
Based on G12-210mm wafer with multi-busbar
N-Type wafer and TOPCon technology

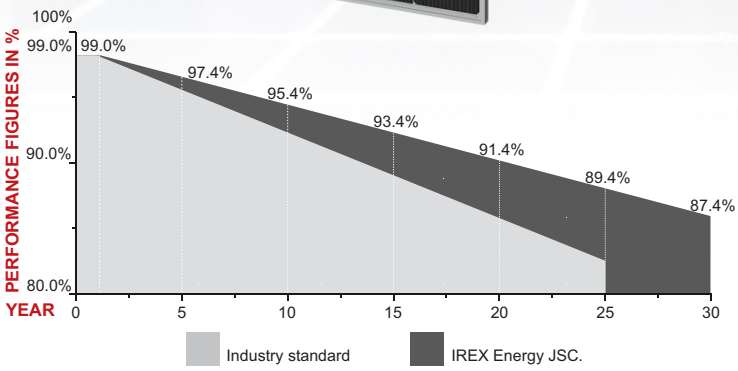
### MODULE TECHNOLOGY
Double-sided power generation
Low breakage rate; Annual power degradation 0.4%
Less power loss by minimizing the shading impact

### HOT SPOT LOSS
Optimized electrical design and lower operating current
Reduced hot spot loss and better temperature coefficient

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

### MODULE DURABILITY
Mechanical load test Front side 5400Pa/Rear side 2400Pa
Ideal for PV rooftops, ground mount, floating

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




**ADDITIONAL LINEAR WARRANTY VALUE FROM IREX ENERGY JSC**

**0 ~ +5W** Power Tolerance

**15 - years** Material & workmanship

**30 - years** Linear power Output

## CERTIFICATES

**ISO 9001:2015:** Quality Management System
**ISO 14001:2015:** Environmental Management System
**IEC 61215:** Terrestrial Photovoltaic (PV) Modules – Design Qualification and Type Approval
**IEC 61730:** Photovoltaic (PV) Module Safety Qualification

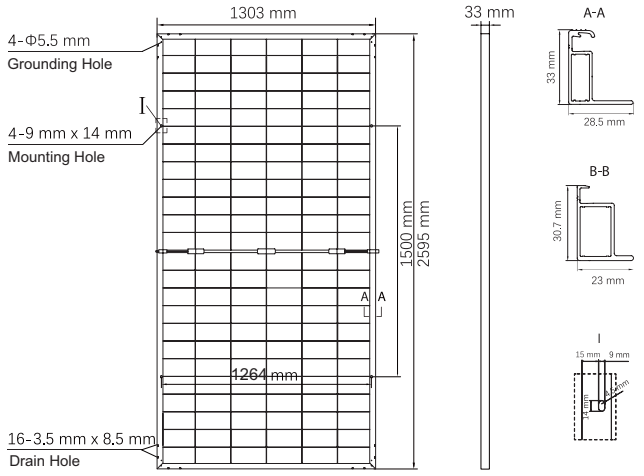

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**Tel:** +84 (0)28 7300 1559 | **Email:** info@irex.vn I **Website:** www.irex.vn

# SOLAR MODULE

# 775 - 800 W

## Mechanical Specifications

| | |
|---|---|
| External Dimensions | 2595 x 1303 x 33 mm |
| Weight | 40 kg |
| Solar Cells | N-type TOPCon Mono 105 x 210 mm (144 pcs) |
| Glass | Front: 2.0 mm, AR coating, semi-tempered |
| | Rear: 2.0 mm, semi-tempered |
| Frame | Anodized aluminium alloy |
| Junction Box | IP68, 3 diodes |
| Output Cables | 4.0 mm², 350 mm(+)/ 280 mm(-)<br>or Customized Length |
| Mechanical Load | Front Side Maximum Static Loading 5400Pa<br>Rear Side Maximum Static Loading 2400Pa |




Long Side Frame Short Side Frame

*Tolerrance:Length:±2mm Width:±2mm Height:±1mm Row Pitch:±2mm

## Electrical Characteristics

| Module Type | IRM72HTBD4-775 | | IRM72HTBD4-780 | | IRM72HTBD4-785 | | IRM72HTBD4-790 | | IRM72HTBD4-795 | | IRM72HTBD4-800 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | STC | BNPI | STC | BNPI | STC | BNPI | STC | BNPI | STC | BNPI | STC | BNPI |
| Maximum Power (Pmax) | 775 | 855.6 | 780 | 861.1 | 785 | 866.6 | 790 | 872.1 | 795 | 877.6 | 800 | 883.2 |
| Open Circuit Voltage (Voc) | 52.72 | 52.73 | 52.87 | 52.88 | 53.02 | 53.03 | 53.17 | 53.18 | 53.52 | 53.33 | 53.47 | 53,48 |
| Short Circuit Current (Isc) | 18.38 | 20.30 | 18.43 | 20.37 | 18.49 | 20.44 | 18.56 | 20.51 | 18.62 | 20.58 | 18.68 | 20.65 |
| Maximum Power Voltage (Vmp) | 44.28 | 44.29 | 44.41 | 44.42 | 44.54 | 44.54 | 44.66 | 44.67 | 44.79 | 44.79 | 44.91 | 44.92 |
| Maximum Power Current (Imp) | 17.50 | 19.32 | 17.56 | 19.39 | 17.63 | 19.46 | 17.69 | 19.52 | 17.75 | 19.59 | 17.81 | 19.66 |
| Module Efficiency at STC(ηm) | 22.9 | | 23.1 | | 23.2 | | 23.4 | | 23.5 | | 23.7 | |
| Power Tolerance | (0 ~ +5 W) | | | | | | | | | | | |
| Maximum System Voltage | 1500 VDC | | | | | | | | | | | |
| Maximum Series Fuse Rating | 35 A | | | | | | | | | | | |

STC: Irradiance 1000 W/m², cell temperature 25°C, spectrum AM1.5
NMOT: Irradiance 800 W/m², ambient temperature 20°C, spectrum AM1.5, wind speed 1m/s

## Different Rearside Power Gain

| | (Reference to 775 W ) | | |
|---|---|---|---|
| Rearside Power Gain | 5% | 10% | 20% |
| Maximum Power at STC (Pmax) | 813.8 | 852.5 | 930 |
| Open-circuit Voltage (Voc/V) | 52.7 | 52.7 | 52.7 |
| Short-circuit Current (Isc/A) | 19.3 | 20.2 | 22.1 |
| Maximum Power Voltage (Vmp/V) | 44.3 | 44.3 | 44.3 |
| Maximum Power Current (Imp/A) | 18.4 | 19.3 | 21.0 |
| Module Efficiency (%) | 24.1 | 25.2 | 27.5 |

*The above data is for reference only. When signing a contract, the latest version of the product specification shall prevail.

## Temperature Characteristics

| | |
|---|---|
| Pmax Temperature Coefficient | -0.290 %/°C |
| Voc Temperature Coefficient | -0.250 %/°C |
| Isc Temperature Coefficient | +0.045 %/°C |
| Operating Temperature | -40～+85 °C |
| Nominal Module Operating Temperature (NMOT) | 45 ± 2 °C |

## Packing Configuration

| | 2595 x 1303 x 33 mm |
|---|---|
| Container | 17'5 HC |
| Pieces per Pallet | 33 |
| Pallets per Container | 21 |
| Pieces per Container | 693 |