# Mono-crystalline Bifacial Solar Module (72Cells)

# HJT-182-72MDHV

**530~555W**
POWER OUTPUT RANGE

**20.5%~21.5%**
MODULE EFFICIENCY

## PRODUCT CHARACTERISTICS

- Light Weight, easy to install, high cost performance, high efficiency, Low LCOE, Electricity can be generated on both sides
- Module certified to withstand extreme wind (2400 Pascal) and snow loads (5400 Pascal)
- Guaranteed output: 0~+5W
- Excellent performance in weak light condition, such as cloudy, morning and sunset
- Independently certification by international certification authorities, include IEC61215,IEC61730,CE

## LINEAR WARRANTY AND CERTIFICATION

1st YEAR — 1st year Power output not less than 98%

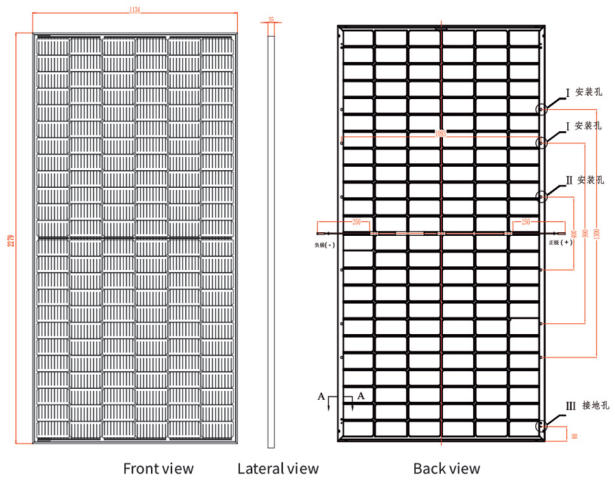
12 YEAR — Warranty for product materials and processes within 12 years

12 YEAR — Power output not less than 93.05% within 12 years

30 YEAR — Power output not less than 84.95% within 30 years

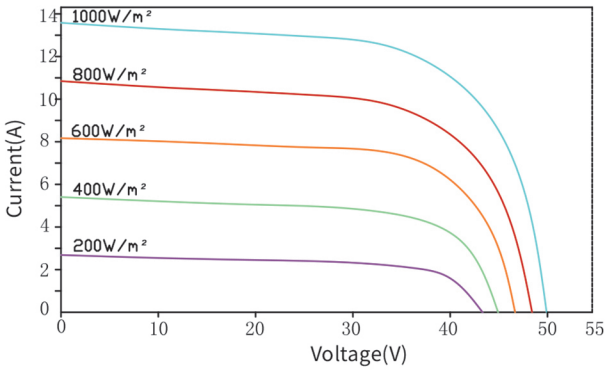
GATHER PHOTOVOLTAIC ENERGY AND BUILD GREEN HOMES

## Assembly Drawing




Front view Lateral view Back view

## I-V Curve（540W）




## Limit Parameters

| | |
|---|---|
| Operating temperature | -40°C to +85°C |
| Maximum fuse current rating | 25A |

## Mechanical Characteristics

| | |
|---|---|
| Cell type | 182×91mm monocrystalline silicon solar cells, a group of 144 cells (6×24) |
| Glass | 2 mm thick low-iron tempered glass with high light transmittance |
| Junction Box | IP Grade: IP68 |

## Physical Parameter

| | |
|---|---|
| Dimension | 2279*1134*30mm |
| Mounting hole size | 400*1093,990*1093,1300*1093mm |
| Cable Length | 250mm; Customizable |
| Weight | 32.6Kg |

## Temperature Rating

| | |
|---|---|
| Nominal Module Operating Temperature (NMOT) | 42°C±2°C |
| Maximum Power (Pmax) Temperature Coefficient (δ (%/°C)) | -0.34 |
| Open-circuit voltage (Voc) Temperature coefficient (β (%/°C)) | -0.26 |
| Short circuit current (Isc) Temperature coefficient (α (%/°C)) | 0.05 |

## Mode of Packing

| | | |
|---|---|---|
| 40 Feet Container | Pieces per case | 36 pcs/case |
| | Quantity per pallet | 2 case/pallet |
| | Pieces per container | 720 pcs/40GP |

## Parameters of Module

| Electrical parameters (Standard test condition) | HJT-72-530MDHV | HJT-72-535MDHV | HJT-72-540MDHV | HJT-72-545MDHV | HJT-72-550MDHV | HJT-72-555MDHV |
|---|---|---|---|---|---|---|
| Maximum power-Pmax(Wp) | 530 | 535 | 540 | 545 | 550 | 555 |
| Maximum operating voltage-Vmp(V) | 41.77 | 42.01 | 42.23 | 42.45 | 42.67 | 42.90 |
| Maximum operating current-Imp(A) | 12.69 | 12.74 | 12.79 | 12.84 | 12.89 | 12.94 |
| Open-circuit voltage -Voc(V) | 49.65 | 49.78 | 49.91 | 50.01 | 50.14 | 50.26 |
| Short-circuit current-Isc(A) | 13.45 | 13.5 | 13.55 | 13.61 | 13.66 | 13.71 |
| Maximum system voltage-Vdc(V) | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 |
| Module efficiency(%) | 20.5% | 20.7% | 20.9% | 21.1% | 21.3% | 21.5% |
| Power tolerance(W) | 0/+5W | 0/+5W | 0/+5W | 0/+5W | 0/+5W | 0/+5W |

Measured values under STC (temperature 25°C, air quality AM1.5, irradiance 1000W/m²)

### Different back-side power gain (for example 535W)

| Power Gain | 5% | 10% | 15% | 20% | 25% |
|---|---|---|---|---|---|
| Max Power(Wp) | 562 | 589 | 615 | 642 | 669 |
| Max-Power Voltage Vmp(V) | 42.01 | 42.01 | 42.01 | 42.01 | 42.01 |
| Max-Power Current Imp(A) | 13.38 | 14.01 | 14.65 | 15.29 | 15.93 |
| Open-Circuit Voltage Voc(V) | 49.78 | 49.78 | 49.78 | 49.78 | 49.78 |
| Short-Circuit Current Isc(A) | 14.18 | 14.85 | 15.53 | 16.20 | 16.88 |
| Module efficiency | 21.7% | 22.8% | 23.8% | 24.8% | 25.9% |



Address:Intersection of Wenxi Road and Ningmao Road, Guozhuang Town,Jurong City,Jiangsu Province.
Email : sales@jrhengjia.cn | Web : http://www.hjtsolar.cn