

# Mono-crystalline Solar Module (54Cells)

## CEC6-54MHV

**390~410W**  
POWER OUTPUT RANGE

**20.0%~21%**  
MODULE EFFICIENCY

### PRODUCT CHARACTERISTICS

- ◆ Light weight, easy to install, high cost performance, high efficiency
- ◆ 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 Power output not less than 98%



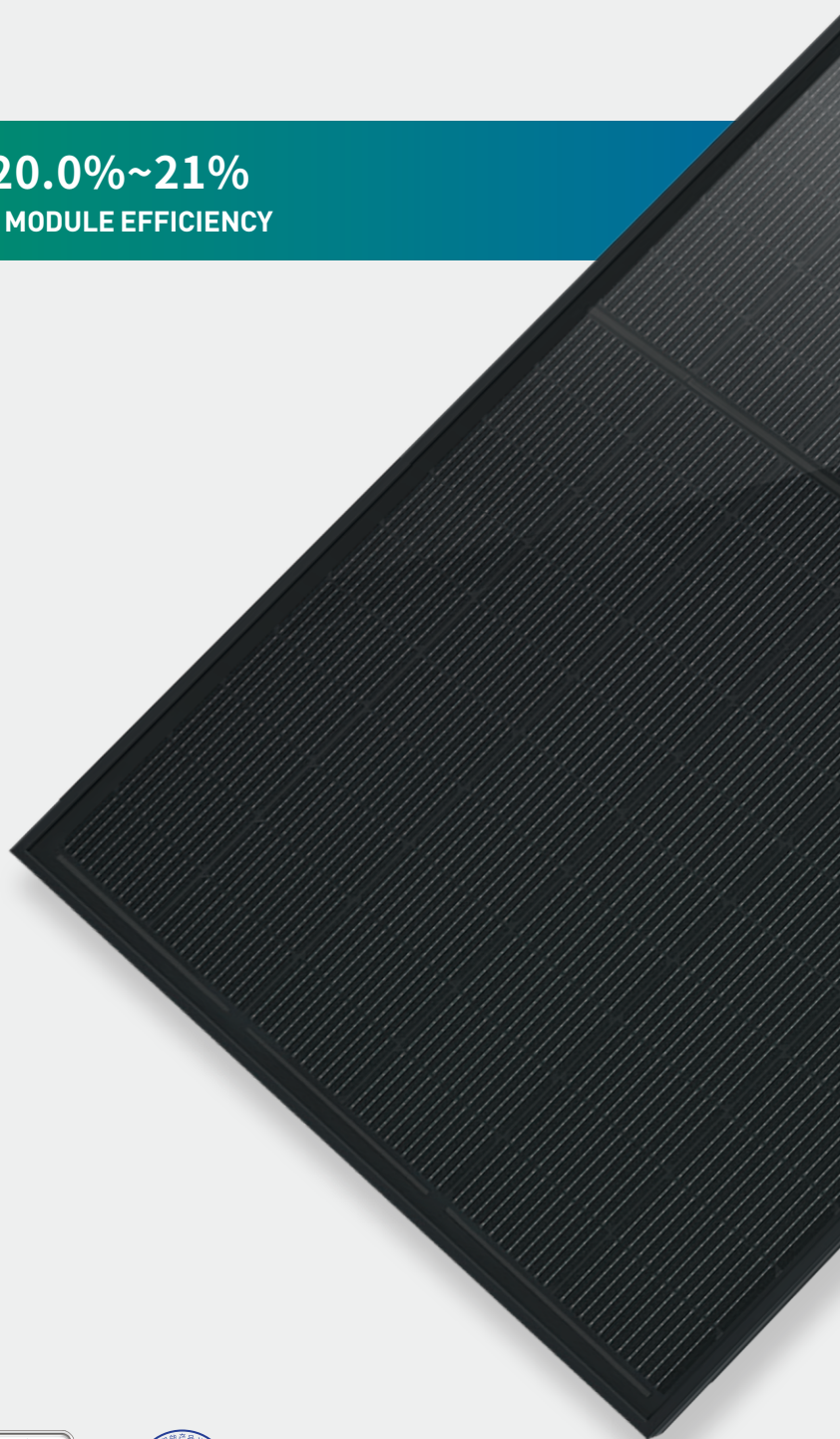
Warranty for product materials and processes within 12 years



Power output not less than 90.3% within 15 years

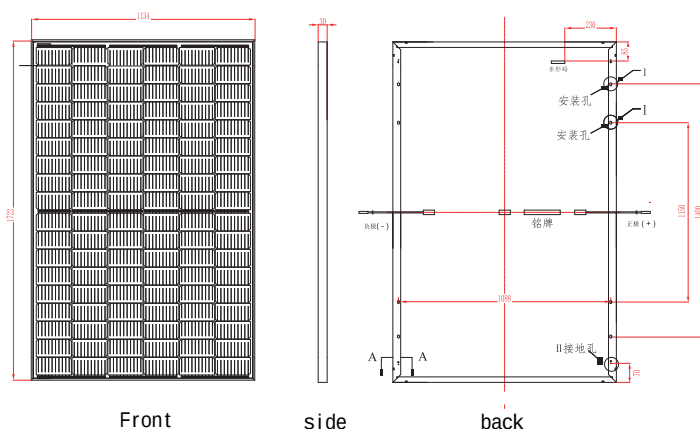


Power output not less than 84.8% within 25 years

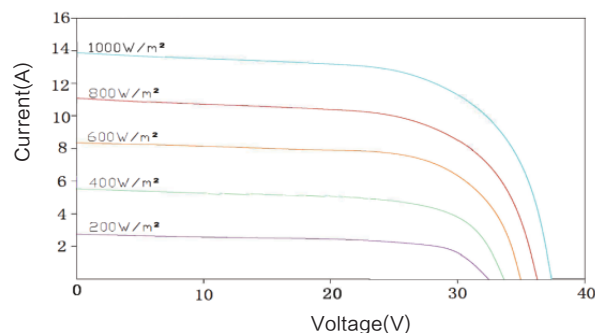


# QUALITY OF CENTRAL ENTERPRISE SERVICE GUARANTEE

## Assembly Drawing



## I-V Curve (410W)



## Limit Parameters

|                             |                |
|-----------------------------|----------------|
| Operating temperature       | -40°C to +85°C |
| Maximum fuse current rating | 20/25A         |

## Physical Parameter

|                    |                        |
|--------------------|------------------------|
| Dimension          | 1722*1134*30mm         |
| Mounting hole size | 1088*1150, 1088*1400mm |
| Cable Length       | 1100mm;                |
| Weight             | 21.5 Kg                |

## Mechanical Characteristics

|              |                                                                           |
|--------------|---------------------------------------------------------------------------|
| Cell type    | 182×91mm monocrystalline silicon solar cells, a group of 108 cells (6×18) |
| Glass        | 3.2 mm thick low-iron tempered glass with high light transmittance        |
| Junction Box | IP Grade: IP68                                                            |

## Temperature Rating

|                                                                        |          |
|------------------------------------------------------------------------|----------|
| Nominal Module Operating Temperature (NMOT)                            | 42°C±2°C |
| Maximum Power (Pmax) Temperature Coefficient ( $\delta$ (%/°C))        | -0.34    |
| Open-circuit voltage (Voc) Temperature coefficient ( $\beta$ (%/°C))   | -0.26    |
| Short circuit current (Isc) Temperature coefficient ( $\alpha$ (%/°C)) | 0.05     |

## Mode of Packing

|                   |                      |               |
|-------------------|----------------------|---------------|
| 40 Feet Container | Pieces per case      | 36 pcs/case   |
|                   | Quantity per pallet  | 2 case/pallet |
|                   | Pieces per container | 936 pcs/40GP  |

## Parameters of Module

| Electrical parameters (Standard test condition) | CEC6-54-395MHV | CEC6-54-400MHV | CEC6-54-405MHV | CEC6-54-410MHV |
|-------------------------------------------------|----------------|----------------|----------------|----------------|
| Maximum power-Pmax(Wp)                          | 395            | 400            | 405            | 410            |
| Maximum operating voltage-Vmp(V)                | 30.92          | 31.09          | 31.26          | 31.43          |
| Maximum operating current-Imp(A)                | 12.77          | 12.86          | 12.96          | 13.05          |
| Open-circuit voltage -Voc(V)                    | 36.80          | 37.00          | 37.20          | 37.40          |
| Short-circuit current-Isc(A)                    | 13.52          | 13.65          | 13.76          | 13.88          |
| Maximum system voltage-Vdc(V)                   | 1500           | 1500           | 1500           | 1500           |
| Module efficiency(%)                            | 20.2%          | 20.5%          | 20.7%          | 21.0%          |
| Power tolerance(W)                              | 0/+5W          | 0/+5W          | 0/+5W          | 0/+5W          |

Measured values under STC (temperature 25°C, air quality AM1.5, irradiance 1000W/m<sup>2</sup>)

## Test under NMOT conditions

|                              |       |       |       |       |
|------------------------------|-------|-------|-------|-------|
| Max Power(Wp)                | 295.2 | 298.9 | 302.7 | 306.4 |
| Max-Power Voltage Vmp(V)     | 28.82 | 28.98 | 29.13 | 29.29 |
| Max-Power Current Imp(A)     | 10.24 | 10.32 | 10.39 | 10.46 |
| Open-Circuit Voltage Voc(V)  | 34.78 | 34.97 | 35.15 | 35.34 |
| Short-Circuit Current Isc(A) | 10.97 | 11.07 | 11.17 | 11.26 |



Make Power Genration More Green

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