
## PRODUCT FEATURES

**High Efficiency**
The multi-busbar half-cut technology can boost energy density to deliver higher output.

**High Reliability**
Certified in TUV salt spray, ammonia corrosion, 2400Pa wind load and 5400Pa snow load testing. Highly reliable.

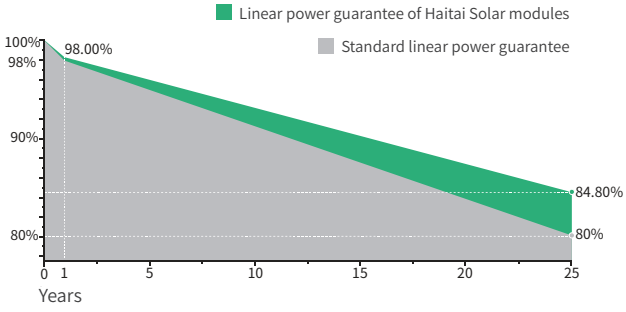
**High ROI**
Effectively reducing BOS costs to achieve lower LCOE and enhanced project profitability.

**Low Degradation**
First-year degradation is less than 2.0%, with linear degradation of 0.55% per year for 25 years.

**Low Risk of Hot Spot**
The next-generation cell technology and optimized circuit design adopted can support improved temperature coefficient and better hotspot resistance.

**Low Risk of Micro-Crack**
The multi-busbar technology contributes to more effective prevention of Micro crack and broken busbars.

## LINEAR PERFORMANCE WARRANTY




12 YEARS product warranty

25 YEARS linear power warranty

0.55 % Linear attenuation of 0.55% per year within 25 years

## CERTIFICATES

·IEC 61215，IEC 61730
·ISO 9001：2015 Quality Management System
·ISO 14001：2015 Environment Management System
·ISO 45001：2018 Occupational health and safety management systems

Haitai Solar

Quality casting value

## Electrical Data (STC)

| | | | | | |
|---|---|---|---|---|---|
| Maximum Power (Pmax/W) | 535 | 540 | 545 | 550 | 555 |
| Open Circuit Voltage (Voc/V) | 49.38 | 49.53 | 49.68 | 49.83 | 49.98 |
| Short Circuit Current (Isc/A) | 13.54 | 13.63 | 13.71 | 13.80 | 13.88 |
| Voltage at Maximum Power (Vmp/V) | 40.88 | 41.03 | 41.18 | 41.31 | 41.43 |
| Current at Maximum Power (Imp/A) | 13.10 | 13.17 | 13.24 | 13.32 | 13.40 |
| Module Efficiency (%) | 20.71 | 20.90 | 21.10 | 21.29 | 21.48 |
| Operating Temperature | -40° C~+85° C | | | | |
| Maximum System Voltage | 1000/1500V | | | | |

STC (Standard Testing Conditions): Irradiance 1000W/m$^2$, Cell Temperature 25℃ , AM1.5

## Electrical Data (NMOT)

| | | | | | |
|---|---|---|---|---|---|
| Maximum Power (Pmax/W) | 400 | 404 | 408 | 412 | 416 |
| Open Circuit Voltage (Voc/V) | 45.41 | 45.56 | 45.71 | 45.85 | 46.00 |
| Short Circuit Current (Isc/A) | 11.29 | 11.37 | 11.44 | 11.53 | 11.60 |
| Voltage at Maximum Power (Vmp/V) | 37.64 | 37.79 | 37.94 | 38.05 | 38.17 |
| Current at Maximum Power (Imp/A) | 10.64 | 10.70 | 10.77 | 10.83 | 10.90 |

NMOT (Nominal Moudule Operating Temperature): Irradiance 800W/m$^2$, Ambient Temperature 20°C , AM1.5, Wind Speed 1m/s.

## Mechanical Data

| | |
|---|---|
| Cell Type | 182×91mm Mono |
| Cell Orientation | 144(6×24) |
| Module Dimensions | 2278×1134×30mm |
| Weight | 28.0kg |
| Glass | 3.2mm high transmittance, reinforced glass |
| Backsheet | Anti-aging film |
| Frame Material | Anodized aluminum alloy |
| Junction Box | Protection class IP68 |
| Cable | 4.0 mm$^2$ positive pole: 200 mm negative pole: 250 mm wire length can be customized |
| Connector | MC4 compatible connector |

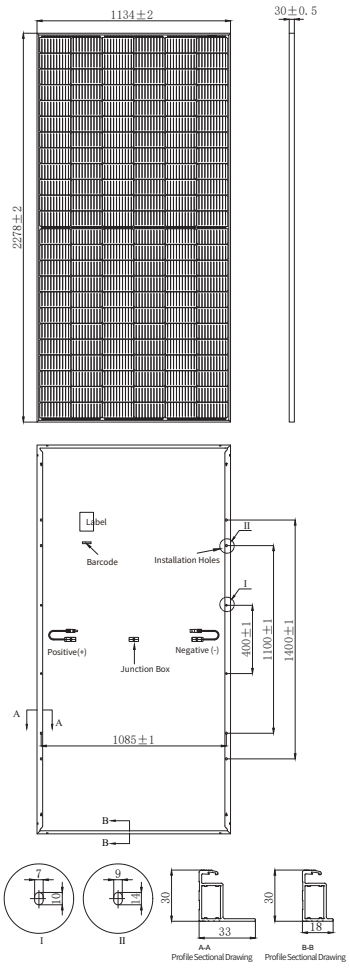
## Temperature Coefficients

| | |
|---|---|
| Temperature Coefficient (Pm) | -0.340%/°C |
| Temperature Coefficient (Voc) | -0.270%/°C |
| Temperature Coefficient (Isc) | 0.048%/°C |
| NMOT (Nominal Moudule Operating Temperature) | 41±3°C |

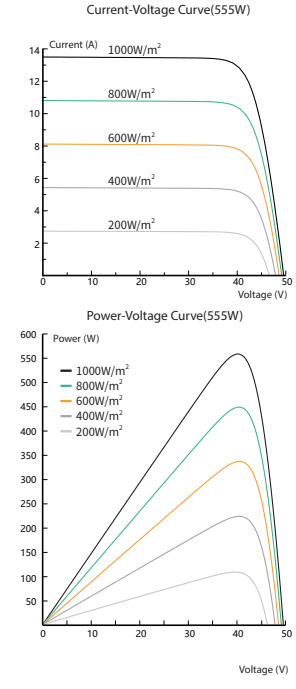
## Packaging

| Transportation methods | Number of modules per cabinet | Number of modules per pallet |
|---|---|---|
| 40HQ container | 720pcs | 36pcs +36pcs |

## Module Dimensions (mm)




## I-V Curve





Web: www.haitai-solar.com
E-mail: ht@htsolargroup.com





HAITAI20220429EN