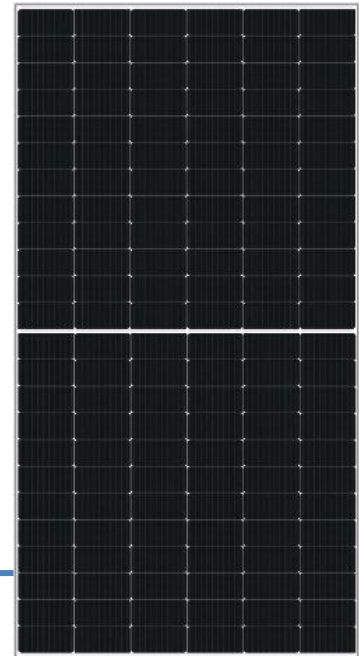




HW-M10/144H(530-550)

High Efficiency Mono Solar Module



Introduction

MBB and high-density interconnect technology improves power output and module efficiency.

Deploying advanced non-destructive cutting and half-cut technology, the Module features excellent Mechanical performance.



Excellent power generation performance

0/+5W positive power tolerance
Improved low light irradiance performance and low degradation



Advanced production process

Optimized MBB design
Cell efficiency >23.0%



Stable mechanical performance

Passed rigorous hail test
Withstands 5400Pa snow and 2400Pa wind loads



Superior quality control

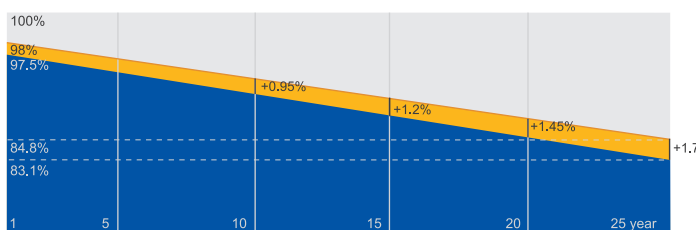
Full automatic production line
100% three times EL and appearance inspection

Certificate

TUV: EN IEC 61215, EN IEC 61730
GB/T 19001-2016/ISO 9001:2015
GB/T 24001-2016/ISO 14001:2015
GB/T 45001-2020/ISO 45001:2018



Warranty



■ New linear power warranty ■ Standard module linear power warranty

Hiwatt Solar Limited

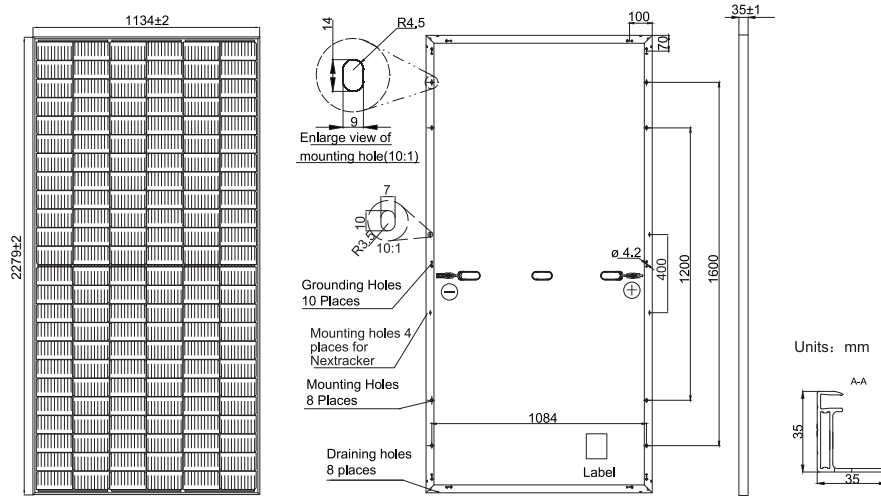
No.6, Fazhan Road, Dongtai city, Jiangsu, China

Tel:+86-523-89118897

Email: Info@hiwattsolar.com

Web: www.hiwattsolar.com

MECHANICAL DIAGRAMS



SPECIFICATIONS

| | |
|--------------|--------------------|
| Solar Cells | Monocrystalline |
| No. Of Cells | 144(6x24) |
| Dimensions | 2279x1134x35mm |
| Weight | 28.6kgs |
| Junction Box | IP 68, 3 Diodes |
| Cables | 4.0mm ² |
| Connectors | QC 4.10-35 |

ELECTRICAL DATA (STC)

| | 530 | 535 | 540 | 545 | 550 |
|---------------------------------|--------|-------|-------|-------|-------|
| Peak Power Watts-PMAX (Wp) | 530 | 535 | 540 | 545 | 550 |
| Power Tolerance-PMAX (W) | 0 ~ +5 | | | | |
| Maximum Power Voltage -VMPP (V) | 41.31 | 41.47 | 41.64 | 41.80 | 41.96 |
| Maximum Power Current -IMPP (A) | 12.83 | 12.90 | 12.97 | 13.04 | 13.11 |
| Open Circuit Voltage -VOC (V) | 49.30 | 49.45 | 49.60 | 49.75 | 49.90 |
| Short Circuit Current -ISC (A) | 13.72 | 13.79 | 13.86 | 13.93 | 14.00 |
| Module Efficiency (%) | 20.5 | 20.7 | 20.9 | 21.1 | 21.3 |

STC: Irradiance 1000W/m², Cell Temperature 25°C, Air Mass AM1.5.

ELECTRICAL DATA (NOCT)

| | | | | | |
|---------------------------------|-------|-------|-------|-------|-------|
| Maximum Power-PMAX (Wp) | 401 | 405 | 408 | 412 | 416 |
| Maximum Power Voltage -VMPP (V) | 38.57 | 38.78 | 38.99 | 39.20 | 39.43 |
| Maximum Power Current -IMPP (A) | 10.39 | 10.43 | 10.47 | 10.51 | 10.55 |
| Open Circuit Voltage -VOC (V) | 46.18 | 46.31 | 46.43 | 46.55 | 46.68 |
| Short Circuit Current -ISC (A) | 11.01 | 11.05 | 11.09 | 11.13 | 11.17 |

NOCT: Irradiance at 800W/m², Ambient Temperature 20°C, Wind Speed 1m/s.

TEMPERATURE RATINGS

| | |
|--|-------------|
| NOCT(Nominal Operating Cell Temperature) | 43°C (±2°C) |
| Temperature Coe-cient of PMAX | - 0.34%/°C |
| Temperature Coe-cient of VOC | - 0.25%/°C |
| Temperature Coe-cient of ISC | 0.04%/°C |

MAXIMUM RATINGS

| | |
|-------------------------|----------------|
| Operational Temperature | -40~+85°C |
| Maximum System Voltage | 1500V DC (IEC) |
| Max Series Fuse Rating | 30A |

PACKAGING

| | |
|----------------------------|------------|
| Modules per box: | 31 pieces |
| Modules per 40' container: | 620 pieces |

WARRANTY

- 12 year Product Workmanship Warranty
- 25 year Power Warranty
- 0.55% Annual Power Attenuation
- 2% first year degradation

CHARACTERISTICS

