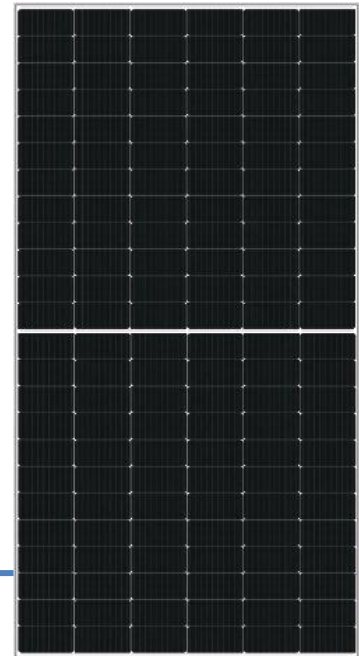




HW-M10/144H(610-630) N-TYPE

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%

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



Stable mechanical performance

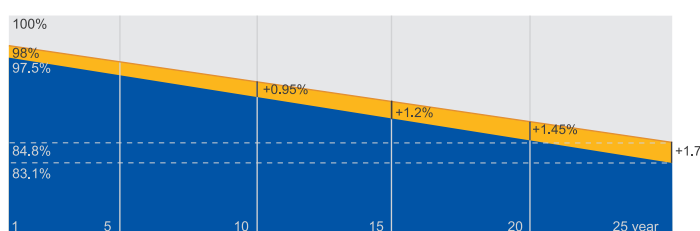
Passed rigorous hail test
Withstands 5400Pa snow and 2400Pa wind loads



Superior quality control

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

Warranty



■ New linear power warranty ■ Standard module linear power warranty

Hiwatt Solar Limited

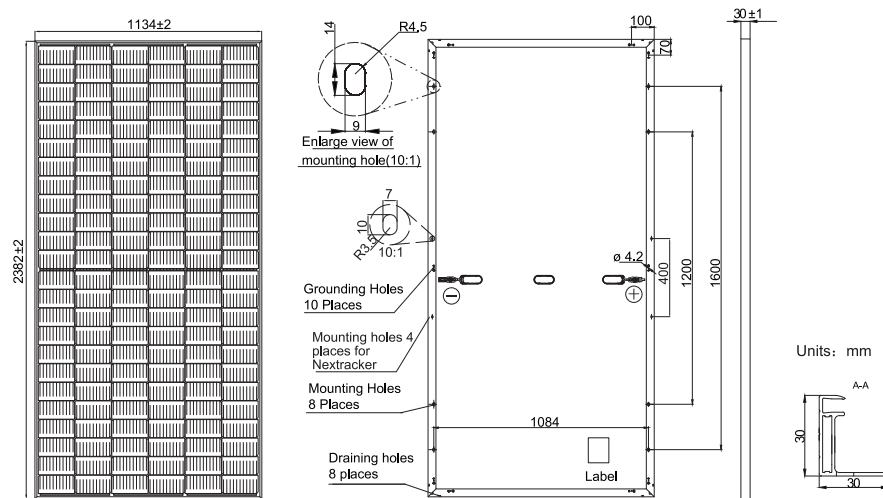
Longxi Road, Changzhou City, Jiangsu, China

Tel: +86-523-89118897

Email: Info@hiwattsolar.com

Web: www.hiwattsolar.com

MECHANICAL DIAGRAMS



SPECIFICATIONS

Solar Cells	Monocrystalline
No. Of Cells	144(6x24)
Dimensions	2382x1134x30mm
Weight	32.8kgs
Junction Box	IP 68, 3 Diodes
Cables	4.0mm ²
Connectors	QC 4.10-35

ELECTRICAL DATA (STC)

Peak Power Watts-PMAX (Wp)	610	615	620	625	630
Power Tolerance-PMAX (W)	0 ~ +5				
Maximum Power Voltage -VMPP (V)	44.45	44.64	44.89	45.04	45.19
Maximum Power Current -IMPP (A)	13.73	13.78	13.81	13.88	13.95
Open Circuit Voltage -VOC (V)	52.27	52.47	52.67	52.87	53.07
Short Circuit Current -ISC (A)	14.67	14.73	14.79	14.84	14.91
Module Efficiency (%)	22.58	22.76	22.95	23.13	23.32

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

ELECTRICAL DATA (NOCT)

Maximum Power-PMAX (Wp)	461	465	469	473	476
Maximum Power Voltage -VMPP (V)	42.0	42.2	42.4	42.5	42.7
Maximum Power Current -IMPP (A)	10.99	11.03	11.07	11.11	11.15
Open Circuit Voltage -VOC (V)	49.4	49.6	49.8	50.0	50.2
Short Circuit Current -ISC (A)	11.81	11.86	11.90	11.95	12.02

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:	36 pieces
Modules per 40' container :	720 pieces

WARRANTY

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

CHARACTERISTICS

