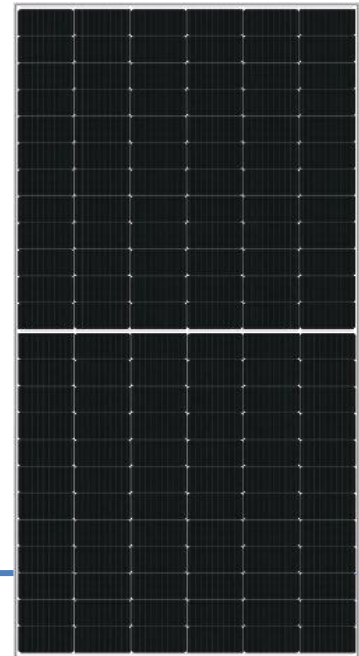




HW-M10/144H(560-580) N-TYPE

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%



Stable mechanical performance

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



Superior quality control

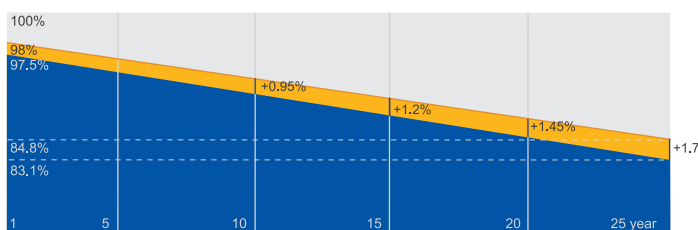
Full automatic production line
100% three times EL and appearance inspection

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

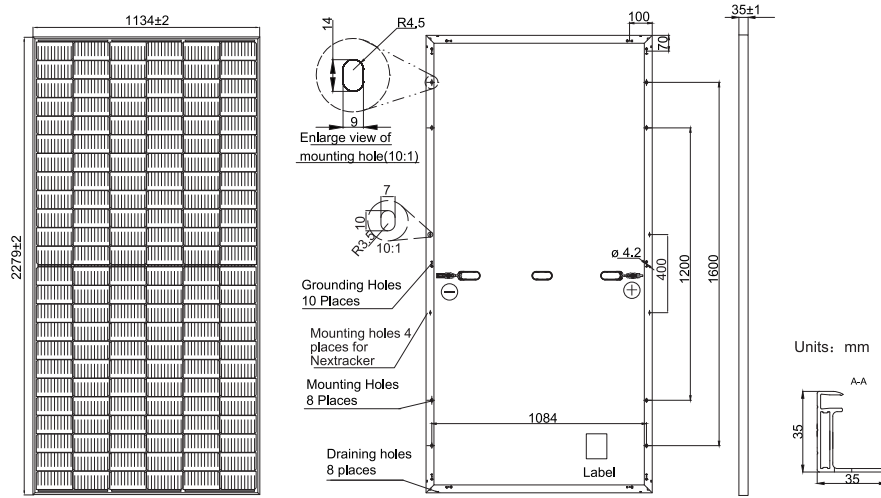
Longxi Road, Changzhou City, Jiangsu, China

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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)

	560	565	570	575	580
Peak Power Watts-PMAX (Wp)	560	565	570	575	580
Power Tolerance-PMAX (W)	0 ~ +5				
Maximum Power Voltage -VMPP (V)	41.95	42.14	42.29	42.44	42.59
Maximum Power Current -IMPP (A)	13.35	13.41	13.48	13.55	13.62
Open Circuit Voltage -VOC (V)	50.67	50.87	51.07	51.27	51.47
Short Circuit Current -ISC (A)	14.17	14.19	14.25	14.31	14.37
Module Efficiency (%)	21.68	21.87	22.07	22.26	22.45

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

ELECTRICAL DATA (NOCT)

Maximum Power-PMAX (Wp)	421	425	429	432	436
Maximum Power Voltage -VMPP (V)	39.39	39.52	39.65	39.78	39.87
Maximum Power Current -IMPP (A)	10.69	10.75	10.81	10.87	10.94
Open Circuit Voltage -VOC (V)	48.13	48.32	48.51	48.70	48.89
Short Circuit Current -ISC (A)	11.41	11.46	11.50	11.55	11.60

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

