

HW-M10/108H(440-460)

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

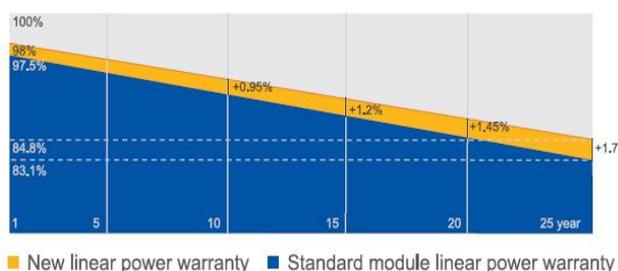
Passed rigorous hail test
Withstands 5400Pa snow and 2400Pa wind loads



Superior quality control

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

Warranty



Hiwatt Solar Limited

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Tel: +86-523-89118897

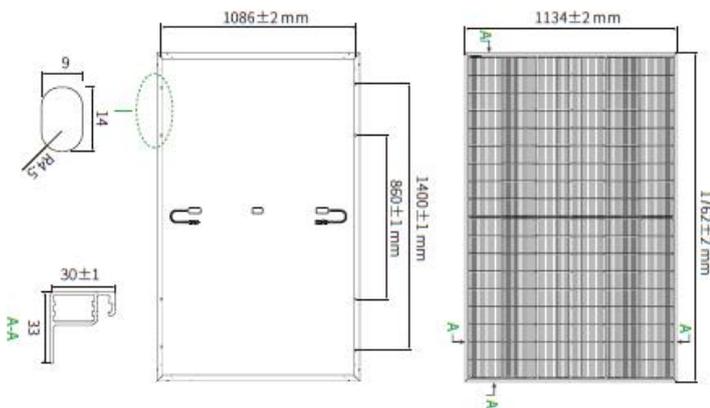
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MECHANICAL DIAGRAMS



SPECIFICATIONS

Solar Cells	Monocrystalline
No. Of Cells	108(6x18)
Dimensions	1762x1134x30mm
Weight	21.0kgs
Junction Box	IP 68, 3 Diodes
Cables	4.0mm ²
Connectors	QC 4.10-35(1500V)

ELECTRICAL DATA (STC)

Peak Power Watts-PMAX (Wp)	440	445	450	455	460
Power Tolerance-PMAX (W)	0 ~ +5				
Maximum Power Voltage -VMPP (V)	32.81	33.02	33.21	33.41	33.60
Maximum Power Current -IMPP (A)	13.41	13.48	13.55	13.62	13.69
Open Circuit Voltage -VOC (V)	39.38	39.59	39.78	39.98	40.17
Short Circuit Current -ISC (A)	13.86	13.93	14.00	14.07	14.14
Module Efficiency (%)	22.02	22.07	22.52	22.77	23.02

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

ELECTRICAL DATA (NOCT)

Maximum Power-PMAX (Wp)	298	302	305	309	313
Maximum Power Voltage -VMPP (V)	29.00	29.29	29.59	29.84	30.14
Maximum Power Current -IMPP (A)	10.29	10.31	10.34	10.38	10.40
Open Circuit Voltage -VOC (V)	34.47	34.50	34.83	35.13	35.46
Short Circuit Current -ISC (A)	11.00	11.03	11.06	11.10	11.13

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:	936 pieces

WARRANTY

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

CHARACTERISTICS

