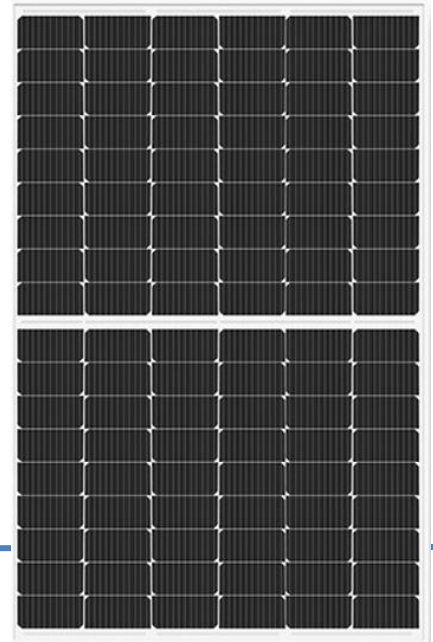




HW-M10/108H(420-440) N-TYPE

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

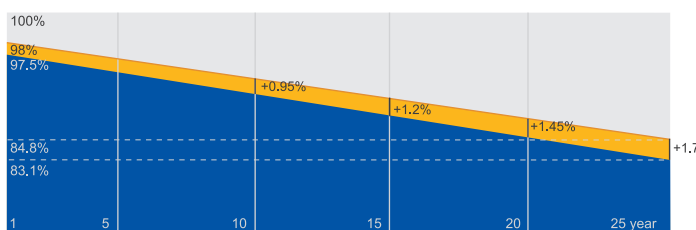
Passed rigorous hail test
Withstands 5400Pa snow and 2400Pa wind loads



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

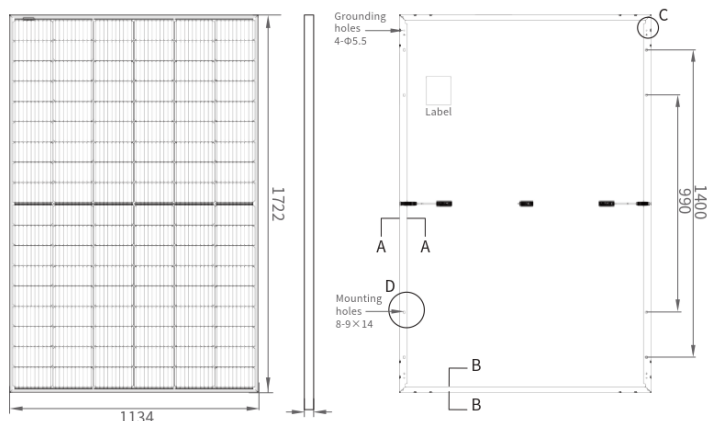
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Email: Info@hiwattsolar.com

Web: www.hiwattsolar.com

MECHANICAL DIAGRAMS



SPECIFICATIONS

Solar Cells	Monocrystalline
No. Of Cells	108(6x18)
Dimensions	1722x1134x30mm
Weight	20.5kgs
Junction Box	IP 68, 3 Diodes
Cables	4.0mm ²
Connectors	QC 4.10-35(1500V)

ELECTRICAL DATA (STC)

	420	425	430	435	440
Peak Power Watts-PMAX (Wp)	420	425	430	435	440
Power Tolerance-PMAX (W)			0 ~ +5		
Maximum Power Voltage -VMPP (V)	32.16	32.37	32.58	32.78	32.99
Maximum Power Current -IMPP (A)	13.06	13.13	13.20	13.27	13.34
Open Circuit Voltage -VOC (V)	38.74	38.95	39.16	39.36	39.57
Short Circuit Current -ISC (A)	13.58	13.58	13.65	13.72	13.80
Module Efficiency (%)	21.02	21.27	21.52	21.77	22.02

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

ELECTRICAL DATA (NOCT)

	316	320	323	327	331
Maximum Power-PMAX (Wp)	316	320	323	327	331
Maximum Power Voltage -VMPP (V)	29.95	30.19	30.30	30.50	30.73
Maximum Power Current -IMPP (A)	10.55	10.60	10.66	10.72	10.77
Open Circuit Voltage -VOC (V)	36.80	37.00	37.20	37.39	37.59
Short Circuit Current -ISC (A)	10.91	10.96	11.02	11.08	11.14

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

