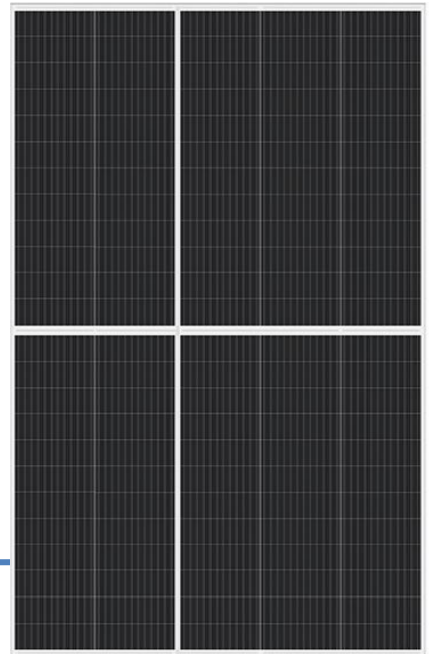




HW-M12/80H(385-405)

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

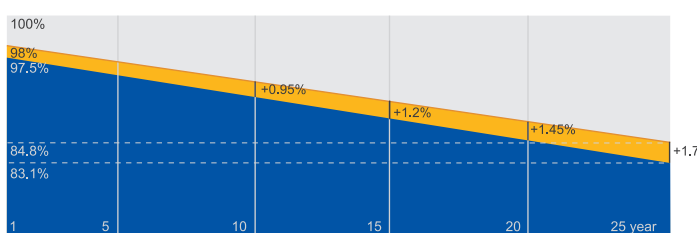
Passed rigorous hail test
Withstands 5400Pa snow and 2400Pa wind loads



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

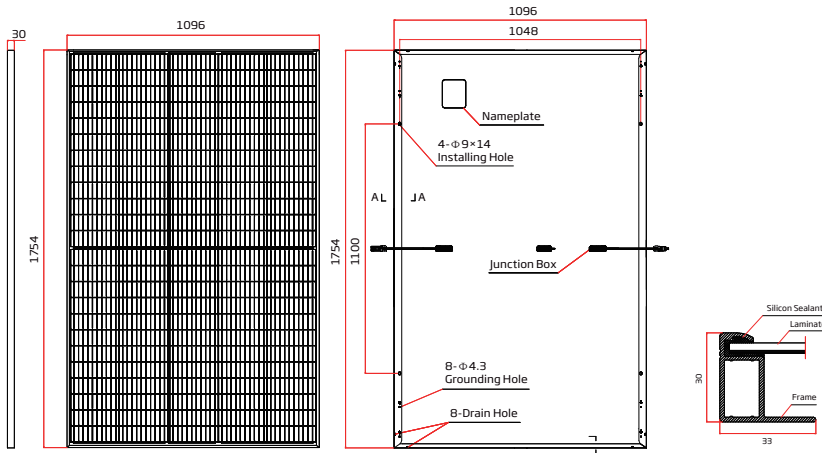
No.6,Fazhan Road, Dongtai city, Jiangsu, China

Tel:+86-523-89118897

Email: Info@hiwattsolar.com

Web: www.hiwattsolar.com

MECHANICAL DIAGRAMS



SPECIFICATIONS

Solar Cells	Monocrystalline
No. Of Cells	120
Dimensions	1754x1096x30mm
Weight	21.0kgs
Junction Box	IP 68, 3 Diodes
Cables	4.0mm ²
Connectors	QC 4.10-35(1500V)

ELECTRICAL DATA (STC)

Parameter	385	390	395	400	405
Peak Power Watts-PMAX (Wp)	385	390	395	400	405
Power Tolerance-PMAX (W)	0 ~ +5				
Maximum Power Voltage -VMPP (V)	33.6	33.8	34.0	34.2	34.4
Maximum Power Current -IMPP (A)	11.46	11.54	11.62	11.70	11.77
Open Circuit Voltage -VOC (V)	40.6	40.8	41.0	41.2	41.4
Short Circuit Current -ISC (A)	12.07	12.14	12.21	12.28	12.34
Module Efficiency (%)	20.1	20.3	20.5	20.8	21.1

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

ELECTRICAL DATA (NOCT)

Maximum Power-PMAX (Wp)	291	295	298	302	306
Maximum Power Voltage -VMPP (V)	31.6	31.8	32.0	32.2	32.5
Maximum Power Current -IMPP (A)	9.21	9.26	9.32	9.38	9.41
Open Circuit Voltage -VOC (V)	38.2	38.4	38.6	38.8	38.9
Short Circuit Current -ISC (A)	9.72	9.78	9.84	9.90	9.95

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

