

HW-M12/100H(485-505)

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

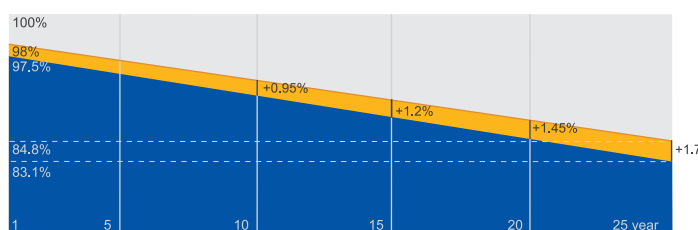
Passed rigorous hail test
Withstands 5400Pa snow and 2400Pa wind loads



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

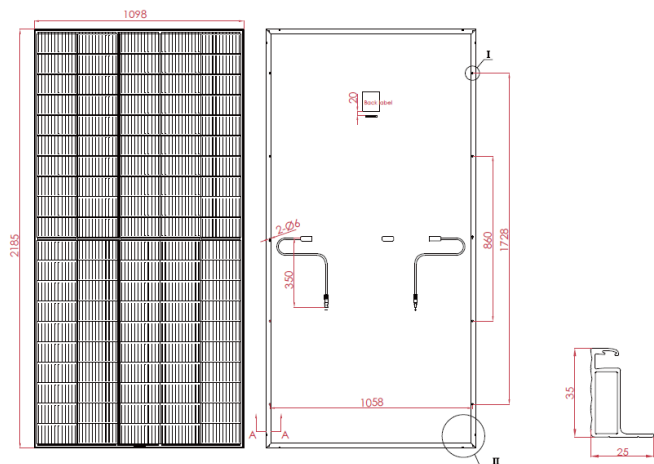
No.6, Fazhan Road, Dongtai city, Jiangsu, China

Tel:+86-523-89118897

Email: Info@hiwattsolar.com

Web: www.hiwattsolar.com

MECHANICAL DIAGRAMS



SPECIFICATIONS

Solar Cells	Monocrystalline
No. Of Cells	100
Dimensions	2185x1098x35mm
Weight	26.5kgs
Junction Box	IP 68, 3 Diodes
Cables	4.0mm ²
Connectors	QC 4.10-35(1500V)

ELECTRICAL DATA (STC)

Peak Power Watts-PMAX (Wp)	485	490	495	500	505
Power Tolerance-PMAX (W)			0 ~ +5		
Maximum Power Voltage -VMPP (V)	28.2	28.4	28.6	28.8	29.0
Maximum Power Current -IMPP (A)	17.19	17.25	17.31	17.36	17.42
Open Circuit Voltage -VOC (V)	33.9	34.1	34.3	34.5	34.7
Short Circuit Current -ISC (A)	18.31	18.39	18.47	18.55	18.63
Module Efficiency (%)	20.2	20.4	20.6	20.8	21.0

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

ELECTRICAL DATA (NOCT)

Maximum Power-PMAX (Wp)	366	370	374	378	382
Maximum Power Voltage -VMPP (V)	25.6	25.8	26.0	26.2	26.4
Maximum Power Current -IMPP (A)	14.29	14.34	14.38	14.42	14.47
Open Circuit Voltage -VOC (V)	31.5	31.7	31.9	32.1	32.3
Short Circuit Current -ISC (A)	15.04	15.12	15.20	15.28	15.36

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

