

# HW-M10/108H(395-415)

## 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

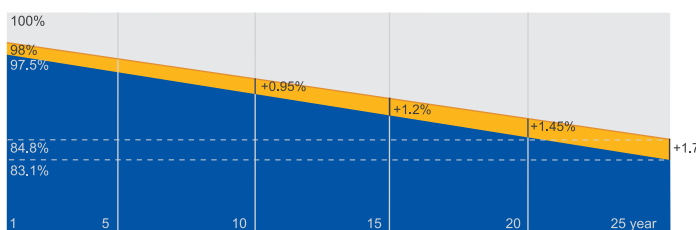
Passed rigorous hail test  
Withstands 5400Pa snow and 2400Pa wind loads



### Superior quality control

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

### Warranty



■ New linear power warranty ■ Standard module linear power warranty

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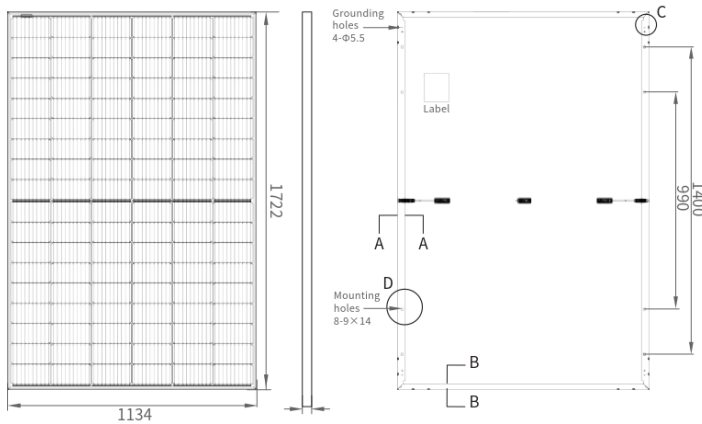
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## MECHANICAL DIAGRAMS



## SPECIFICATIONS

Solar Cells	Monocrystalline
No. Of Cells	108(6x18)
Dimensions	1722x1134x35mm
Weight	20.5kgs
Junction Box	IP 68, 3 Diodes
Cables	4.0mm <sup>2</sup>
Connectors	QC 4.10-35(1500V)

## ELECTRICAL DATA (STC)

	395	400	405	410	415
Peak Power Watts-PMAX (Wp)	395	400	405	410	415
Power Tolerance-PMAX (W)			0 ~ +5		
Maximum Power Voltage -VMPP (V)	30.72	31.04	31.35	31.62	31.92
Maximum Power Current -IMPP (A)	12.86	12.89	12.92	12.97	13.01
Open Circuit Voltage -VOC (V)	36.19	36.54	36.89	37.21	37.56
Short Circuit Current -ISC (A)	13.66	13.70	13.74	13.79	13.83
Module Efficiency (%)	20.2	20.5	20.7	21.0	21.2

STC: Irradiance 1000W/m<sup>2</sup>, 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/m<sup>2</sup>, 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:	858 pieces

## WARRANTY

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

## CHARACTERISTICS

