

Honor Solar

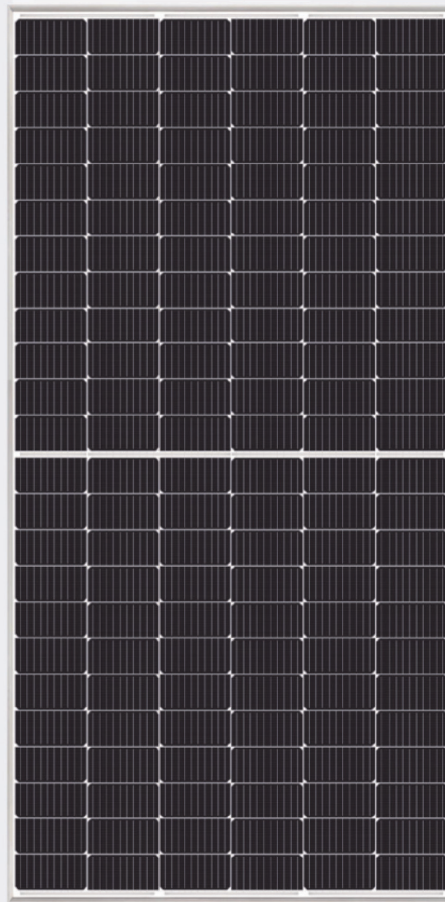
HY-M10/144H

**N-type
Monocrystalline Module
555-580W**

Cell Type



16BB/18BB(182mm)



580W

Maximum Power Output

22.5%

Maximum Module Efficiency

+5W

Power Output Guarantee



Ideal choice for large scale ground installation



Selected encapsulating material and stringent production process control ensure the product is highly PID resistant and snail trails free



Special cutting and soldering technology leads to low hot spot risk



Sand blowing test, salt mist test and ammonia test passed to endure harsh environments



Optimized system performance due to module level current sorting



Highly transparent self-cleaning glass brings additional yield and easy maintenance

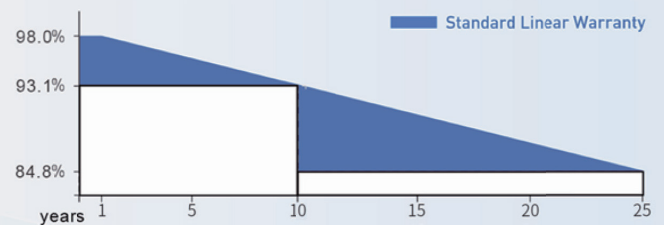
Delivers Reliable Performance Over Time

- manufacturer of crystalline silicon photovoltaic modules
- Fully automatic facility and world-class technology
- Rigorous quality control to meet the highest standard: ISO9001:2015, ISO14001: 2015 and OHSAS: 18001 2007
- Tested for harsh environments (salt mist, ammonia corrosion and sand blowing test: IEC 61701, IEC 62716, DIN EN 60068-2- 68)
- Long term reliability tests
- 2x100% EL inspection ensuring defect-free modules

Product certification



Linear Performance Warranty



12 Years Product Warranty 25 Years Linear Power Warranty

* Please refer to standard warranty for details

HY-M10/144H

N-type

Monocrystalline Module

555-580W

Electrical Specification (STC*)

		555	560	565	570	575	580
Maximum Power	P _{max} (W)	555	560	565	570	575	580
Maximum Power Voltage	V _{mp} (V)	41.79	41.95	42.14	42.29	42.44	42.59
Maximum Power Current	I _{mp} (A)	13.28	13.35	13.41	13.48	13.55	13.62
Open Circuit Voltage	V _{oc} (V)	50.47	50.67	50.87	51.07	51.27	51.47
Short Circuit Current	I _{sc} (A)	14.07	14.13	14.19	14.25	14.31	14.37
Module Efficiency	(%)	21.5	21.7	21.9	22.1	22.3	22.5
Power Output Tolerance	(W)	+5					

* Irradiance 1000W/m², Module Temperature 25°C, Air Mass 1.5

Electrical Specification (NOCT*)

		417	421	425	429	433	437
Maximum Power	P _{max} (W)	417	421	425	429	433	437
Maximum Power Voltage	V _{mp} (V)	39.19	39.28	39.38	39.51	39.64	39.77
Maximum Power Current	I _{mp} (A)	10.64	10.71	10.79	10.85	10.92	10.97
Open Circuit Voltage	V _{oc} (V)	47.78	47.92	48.06	48.20	48.34	48.48
Short Circuit Current	I _{sc} (A)	11.35	11.42	11.49	11.55	11.62	11.69

* Irradiance 800W/m², Ambient Temperature 20°C, Wind Speed 1m/s

Mechanical Data

Number of Cells	144 Cells (6×24)
Dimensions of Module L*W*H (mm)	2278×1134×30mm [8968×44.64×1.18 inches]
Weight (kg)	26.9 kg
Glass	High transparency solar glass 3.2mm [0.13 inches]
Backsheet	White
Frame	Silver, anodized aluminium alloy
J-Box	IP68 Rated
Cable	4.0mm ² [0.006 inches ²], 1200mm [47.2 inches]
Number of diodes	3
Wind/ Snow Load	2400Pa/ 5400Pa*
Connector	MC Compatible

* For more details please check the installation manual

Temperature Ratings

Nominal Operating Cell Temperature (NOCT)	44±2°C
Temperature Coefficient of I _{sc}	+0.048%/°C
Temperature Coefficient of V _{oc}	-0.270%/°C
Temperature Coefficient of P _{MAX}	-0.350%/°C

Maximum Ratings

Operational Temperature	-40~+85°C
Maximum System Voltage	1500V DC -(H)
Max Series Fuse Rating	25A

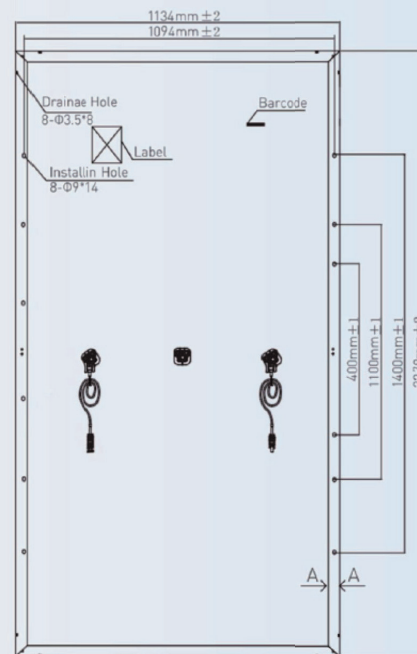
Packaging Configuration

Module per box	36 pieces
Module per 40' container	720 pieces

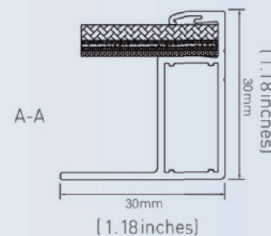
Optional

Connector	MC Original
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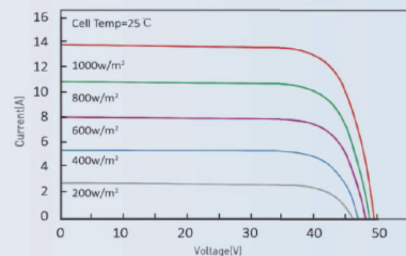
Module Dimension



Back View



I-V Curve at Different Temperature (580W)



I-V/P-V Curve at Different Irradiation (580W)

