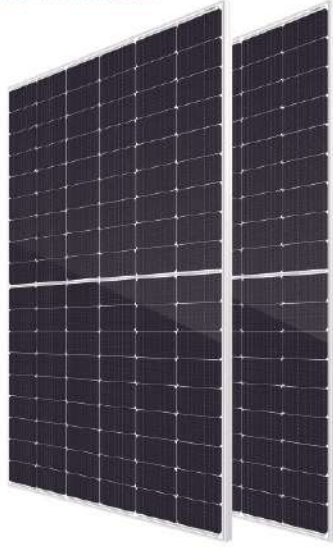


ZPM390~410MH5-54

Monofacial high efficiency mono PV module



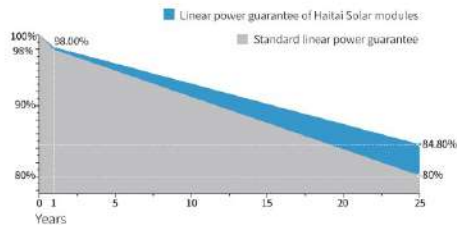
20.97%
Module Efficiency 20.97%

PRODUCT FEATURES

- High efficiency**
The multi-busbar half-cut technology can boost energy density to deliver higher output.
- Highly reliable**
Certified in TUV salt spray, ammonia corrosion, 2400Pa wind load and 5400Pa snow load testing. Highly reliable.
- High yield**
Effectively reducing BOS costs to achieve lower LCOE and enhanced project profitability.

- Low degradation**
First-year degradation is less than 2.0%, with linear degradation of 0.55% per year for 25 years.
- Low hot-spot risk**
The next-generation cell technology and optimized circuit design adopted can support improved temperature coefficient and better hotspot resistance.
- Low micro crack risk**
The multi-busbar technology contributes to more effective prevention of micro crack and broken busbars.

LINEAR PERFORMANCE WARRANTY



- 12** product warranty
- 25** linear power warranty
- 0.55** Linear attenuation of 0.55% per year within 25 years

CERTIFICATES

- IEC 61215, IEC 61730
- ISO 9001: 2005 Quality Management System
- ISO 14001: 2015 Environment Management System
- ISO 45001: 2018 Occupational health and safety management systems



Electrical Data (STC)

Maximum Power (Pmax/W)	390	395	400	405	410
Open Circuit Voltage (Voc/V)	36.66	36.81	36.96	37.11	37.26
Short Circuit Current (Isc/A)	13.40	13.50	13.60	13.70	13.79
Voltage at Maximum Power (Vmp/V)	30.70	30.85	31.00	31.15	31.30
Current at Maximum Power (Imp/A)	12.71	12.81	12.91	13.01	13.10
Module Efficiency (%)	19.95	20.20	20.46	20.72	20.97
Operating Temperature	-40° C~+85° C				
Maximum System Voltage	1000/1500V				

STC (Standard Testing Conditions): Irradiance 1000W/m², Cell Temperature 25°C, AM1.5

Electrical Data (NMOT)

Maximum Power (Pmax/W)	292	296	300	304	308
Open Circuit Voltage (Voc/V)	33.67	33.82	33.97	34.12	34.27
Short Circuit Current (Isc/A)	10.93	11.01	11.1	11.18	11.27
Voltage at Maximum Power (Vmp/V)	27.89	28.04	28.19	28.34	28.49
Current at Maximum Power (Imp/A)	10.48	10.56	10.65	10.73	10.82

NMOT (Nominal Module Operating Temperature): Irradiance 800W/m², Ambient Temperature 20°C, AM1.5, Wind Speed 1m/s.

Mechanical Data

Cell Type	182×91mm Mono
Cell Orientation	108(6×18)
Module Dimensions	1724×1134×35mm
Weight	22.0kg
Glass	3.2mm high transmittance, reinforced glass
Backsheet	Anti-aging film
Frame Material	Anodized aluminum alloy
Junction Box	Protection class IP68
Cable	4.0 mm ² positive pole: 250 mm negative pole: 300 mm wire length can be customized
Connector	MC4 compatible connector

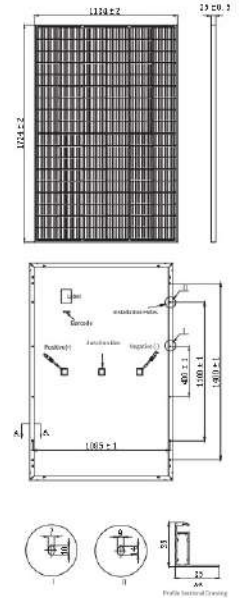
Temperature Coefficients

Temperature Coefficient (Pm)	-0.350%/°C
Temperature Coefficient (Voc)	-0.270%/°C
Temperature Coefficient (Isc)	0.048%/°C
NMOT (Nominal Module Operating Temperature)	41±3°C

Packaging

Transportation methods	Number of modules per cabinet	Number of modules per pallet
40HQ container	806pcs	31pcs+31pcs

Module Dimensions (mm)



I-V Curve

