

Haitai TaiHe 182

HTM405~415DMH5-54

Bifacial high efficiency mono PV module



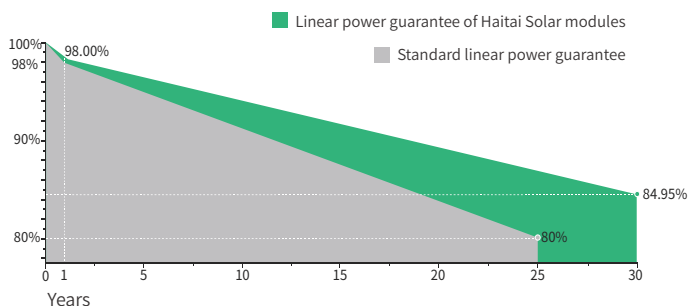
PRODUCT FEATURES

High Efficiency
Power can be generated on both sides to support additional output gains of up to 25%.
The multi-busbar half-cut technology can boost energy density to deliver higher output.

Low Degradation
First-year degradation is less than 2.0%, with linear degradation of 0.45% per year for 30 years.

High ROI
Effectively reducing BOS costs to achieve lower LCOE and enhanced project profitability.

LINEAR PERFORMANCE WARRANTY



CERTIFICATES

· IEC 61215, IEC 61730



12 YEARS product warranty

30 YEARS linear power warranty

0.45% Linear attenuation of 0.45% per year within 30 years

Electrical Data (STC)

Maximum Power (Pmax/W)	405	410	415
Open Circuit Voltage (Voc/V)	37.11	37.26	37.41
Short Circuit Current (Isc/A)	13.70	13.79	13.89
Voltage at Maximum Power (Vmp/V)	31.15	31.30	31.45
Current at Maximum Power (Imp/A)	13.01	13.10	13.20
Module Efficiency (%)	20.74	21.00	21.25
Operating Temperature	-40° C~+85° C		
Maximum System Voltage	1000/1500V		
STC (Standard Testing Conditions): Irradiance 1000W/m ² , Cell Temperature 25°C, AM1.5			

Electrical Data (NMOT)

Maximum Power (Pmax/W)	304	308	312
Open Circuit Voltage (Voc/V)	34.12	34.27	34.42
Short Circuit Current (Isc/A)	11.18	11.27	11.35
Voltage at Maximum Power (Vmp/V)	28.34	28.49	28.64
Current at Maximum Power (Imp/A)	10.73	10.82	10.90
NMOT (Nominal Module Operating Temperature): Irradiance 800W/m ² , Ambient Temperature 20°C, AM1.5, Wind Speed 1m/s.			

Bifacial Power Generation Parameters (Backside Gains)

5%	Maximum Power (Pmax/W)	425	431	436
	Module Efficiency (%)	21.78	22.05	22.31
15%	Maximum Power (Pmax/W)	466	472	477
	Module Efficiency (%)	23.85	24.15	24.44
25%	Maximum Power (Pmax/W)	506	513	519
	Module Efficiency (%)	25.93	26.25	26.57

Mechanical Data

Cell Type	182×91mmMono
Cell Orientation	108(6×18)
Module Dimensions	1722×1134×30mm
Weight	25.0kg
Glass	2.0mm high transmittance, reinforced glass
Backsheet	2.0mm part of the structure is grid-like white ceramic glass
Frame Material	Anodized aluminum alloy
Junction Box	Protection class IP68
Cable	4.0 mm ² positive pole: 200 mm negative pole: 250 mm wire length can be customized
Connector	Stäubli Electrical: Type PV-KST4-EVO2/XY-UR; PV-KBT4-EVO2/XY-UR Jiangsu Holysun: Type C1or C2 Jiangsu TianSheng: Type TS01 or TS02
Maximum Series Fuse Rating	25A
Fire Safety Class	Class C

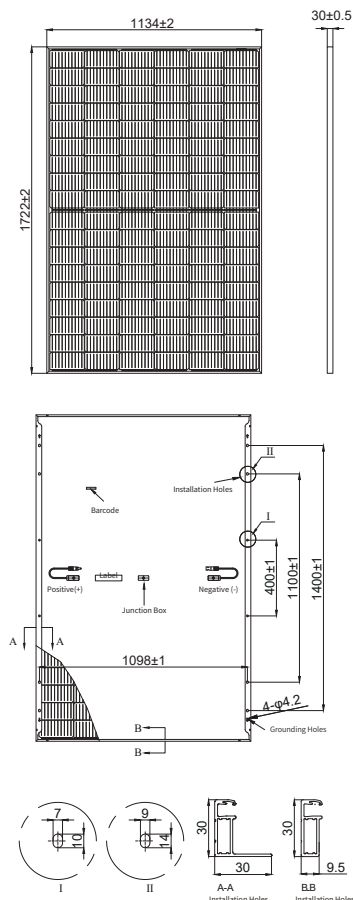
Temperature Coefficients

Temperature Coefficient (Pm)	-0.340%/°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	936 pcs	36 pcs +36 pcs

Module Dimensions (mm)



I-V Curve

