

Haitai TaiHe2.0 182

HTM420~435DMH5-54NT

TOPCon Bifacial high efficiency PV module



PRODUCT FEATURES



High Power Output

N-type MBB half cut technology, improve energy density, bring higher power output.
High Bifacial Factor, up to 25% extra power generation



Low Power Degradation

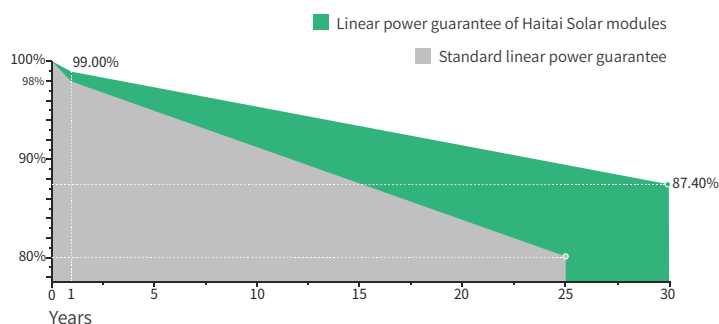
First year power degradation <1.0%, year 2-30 power degradation <0.40% each year



Better Low Light Performance

Higher power generation compare with standard module in cloudy, foggy and low light condition

LINEAR PERFORMANCE WARRANTY



product warranty



linear power warranty



Linear attenuation of 0.40% per year within 30 years

CERTIFICATES

· IEC 61215, IEC 61730



Electrical Data (STC)

Maximum Power (Pmax/W)	420	425	430	435
Open Circuit Voltage (Voc/V)	38.2	38.35	38.5	38.65
Short Circuit Current (Isc/A)	13.74	13.85	13.96	14.07
Voltage at Maximum Power (Vmp/V)	31.65	31.8	31.95	32.1
Current at Maximum Power (Imp/A)	13.28	13.37	13.46	13.56
Module Efficiency (%)	21.51	21.76	22.02	22.28
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)	316	320	324	328
Open Circuit Voltage (Voc/V)	36.27	36.42	36.57	36.72
Short Circuit Current (Isc/A)	11.25	11.34	11.44	11.53
Voltage at Maximum Power (Vmp/V)	29.8	29.95	30.1	30.25
Current at Maximum Power (Imp/A)	10.61	10.69	10.77	10.85
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)	441	446	452	457
	Module Efficiency (%)	22.58	22.85	23.12	23.39
15%	Maximum Power (Pmax/W)	483	489	495	500
	Module Efficiency (%)	24.73	25.03	25.32	25.62
25%	Maximum Power (Pmax/W)	525	531	538	544
	Module Efficiency (%)	26.89	27.21	27.53	27.85

Mechanical Data

Cell Type	182×91mm Mono
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

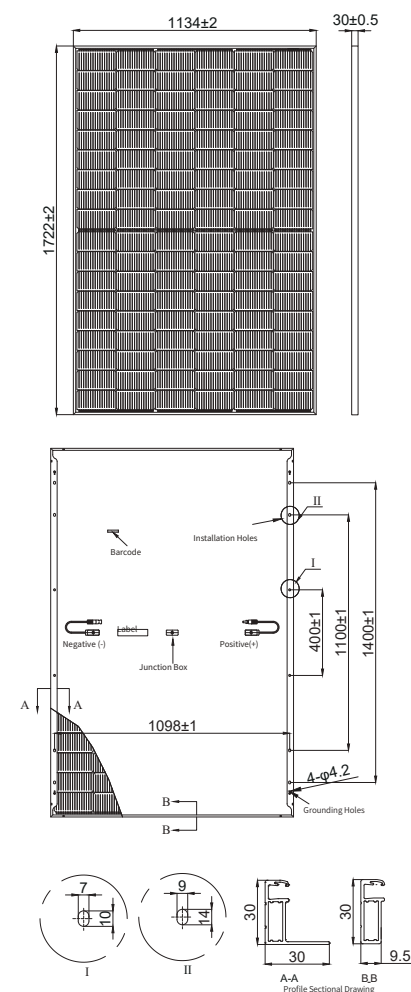
Temperature Coefficients

Temperature Coefficient (Pm)	-0.300%/°C
Temperature Coefficient (Voc)	-0.250%/°C
Temperature Coefficient (Isc)	0.046%/°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

