Haitai Solar

Haitai TaiHe2.0 182

HTM630~650DMH5-78NT

TOPCon Bifacial high efficiency PV module

23.25%

Module Efficiency**23.25%**

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

High Durability
Passed TUV Salt & Ammonia corrosion test, and 2400Pa wind load, 5400Pa snow load test, higher reliability

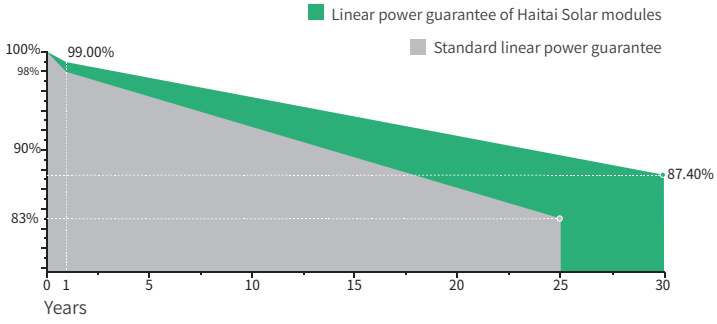
Better Low Light Performance
Higher power generation compare with standard module in cloudy, foggy and low light condition

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

Low Temperature coefficient
Passivated contact cell technology for higher power generation in operating

Better Anti-LID
N-type cells with boron-oxide-free composite LID to increase module power generation

LINEAR PERFORMANCE WARRANTY



12 YEARS product warranty

30 YEARS linear power warranty

0.40 % Linear attenuation of 0.40% per year within30years

CERTIFICATES

·IEC 61215，IEC 61730
·ISO 9001：2015 Quality Management System
·ISO 14001：2015 Environment Management System
·ISO 45001：2018 Occupational health and safety management systems
·IEC62941:2019 Photovoltaic Module Manufacturer Quality Management System

LinkedIn/Facebook
Haitai Solar

Tel
400 0835 985

Website
www.haitai-solar.com

E-mail
ht@htsolargroup.com

Electrical Data (STC)

Maximum Power (Pmax/W)	630	635	640	645	650
Open Circuit Voltage (Voc/V)	56.58	56.73	56.88	57.03	57.18
Short Circuit Current (Isc/A)	13.92	13.99	14.06	14.14	14.21
Voltage at Maximum Power (Vmp/V)	47.62	47.77	47.92	48.07	48.22
Current at Maximum Power (Imp/A)	13.23	13.3	13.36	13.42	13.48
Module Efficiency (%)	22.54	22.72	22.90	23.07	23.25
Operating Temperature	-40° C~+85° C				
Maximum System Voltage	1000/1500V				

STC (Standard Testing Conditions): Irradiance 1000W/m^2, Cell Temperature 25℃ , AM1.5

Electrical Data (NMOT)

Maximum Power (Pmax/W)	474	478	482	486	490
Open Circuit Voltage (Voc/V)	53.81	53.96	54.11	54.26	54.41
Short Circuit Current (Isc/A)	11.37	11.43	11.49	11.56	11.62
Voltage at Maximum Power (Vmp/V)	44.12	44.27	44.42	44.57	44.72
Current at Maximum Power (Imp/A)	10.75	10.8	10.86	10.91	10.96

NMOT (Nominal Moudule 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)	662	667	672	677	683
	Module Efficiency (%)	23.66	23.85	24.04	24.23	24.42
15%	Maximum Power (Pmax/W)	725	730	736	742	748
	Module Efficiency (%)	25.92	26.12	26.33	26.54	26.74
25%	Maximum Power (Pmax/W)	788	794	800	806	813
	Module Efficiency (%)	28.17	28.40	28.62	28.84	29.07

Mechanical Data

Cell Type	182×91mm Mono
Cell Orientation	156(6×26)
Module Dimensions	2465×1134×30mm
Weight	34.5kg
Front Glass	2.0mm high transmittance, reinforced glass
Rear Glass	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

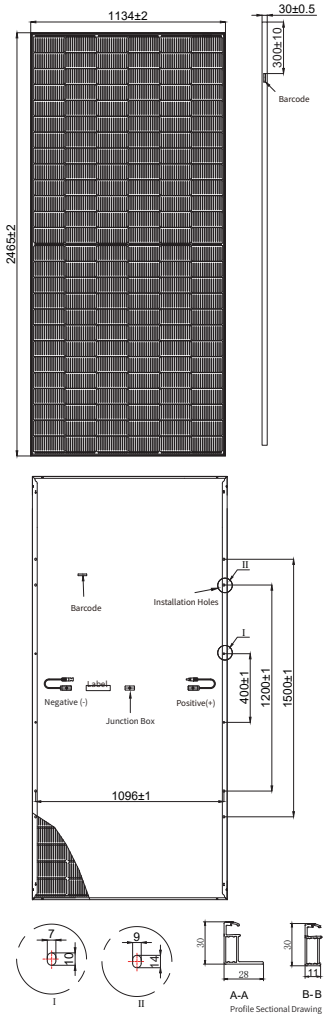
Temperature Coefficients

Temperature Coefficient (Pm)	-0.290%/°C
Temperature Coefficient (Voc)	-0.250%/°C
Temperature Coefficient (Isc)	0.045%/°C
NMOT (Nominal Moudule Operating Temperature)	41±3°C

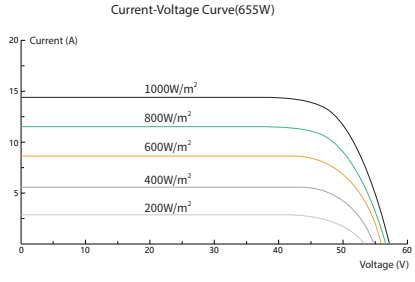
Packaging

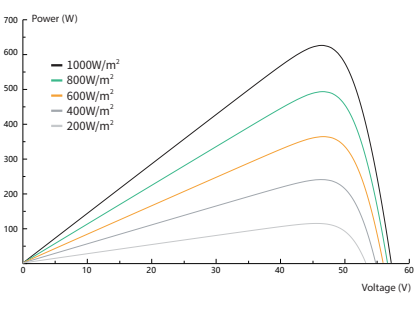
Transportation methods	Number of modules per cabinet	Number of modules per pallet
40HQ container	576pcs	36pcs +36pcs

Module Dimensions (mm)



I-V Curve





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