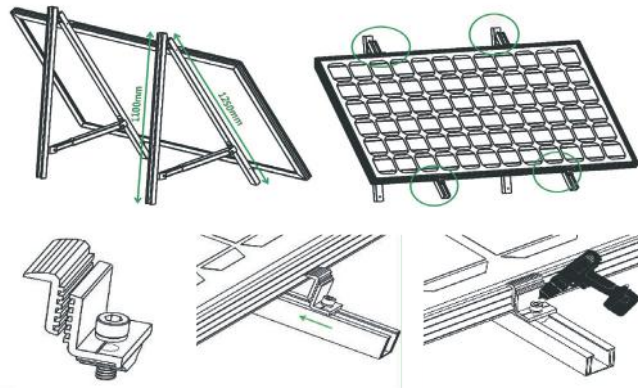




Haitai **TaiHe 2.0** Balcony

HTM420~440DMH5-54NT

TOPCon Bifacial high efficiency PV module



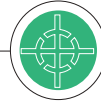
Increase renewable energy
Balcony photovoltaic systems can provide renewable energy for homes or commercial buildings, reducing the consumption of traditional energy, contributing to environmental protection and sustainable development.



Save energy cost
Power generation through the balcony photovoltaic system can reduce the dependence on traditional electricity, reduce energy costs, and save household or commercial electricity bills.



plug&play
Easy to install and use, more flexible

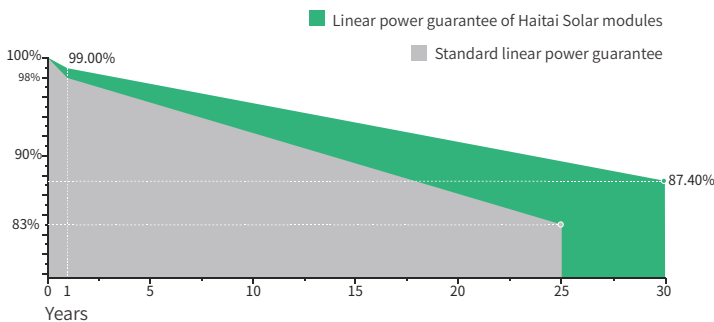


utilize the space
Balconies are often an underutilized area, and installing photovoltaic systems can maximize the use of balcony space to generate clean energy



Residential area feasibility
In some areas where land resources are scarce or there are planning restrictions, balcony photovoltaic systems can be an option to meet the renewable energy needs of some residential areas

LINEAR PERFORMANCE WARRANTY



12 YEARS product warranty

30 YEARS linear power warranty

0.40% Linear attenuation of 0.40% per year within 30 years

CERTIFICATES

- 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



400-0835-985

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Electrical Data (STC)

Maximum Power (Pmax/W)	420	425	430	435	440
Open Circuit Voltage (Voc/V)	38.2	38.35	38.5	38.65	38.8
Short Circuit Current (Isc/A)	13.74	13.85	13.96	14.07	14.18
Voltage at Maximum Power (Vmp/V)	31.65	31.8	31.95	32.1	32.25
Current at Maximum Power (Imp/A)	13.28	13.37	13.46	13.56	13.65
Module Efficiency (%)	21.51	21.76	22.02	22.28	22.53
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	332
Open Circuit Voltage (Voc/V)	36.27	36.42	36.57	36.72	36.87
Short Circuit Current (Isc/A)	11.25	11.34	11.44	11.53	11.63
Voltage at Maximum Power (Vmp/V)	29.8	29.95	30.10	30.25	30.40
Current at Maximum Power (Imp/A)	10.61	10.69	10.77	10.85	10.93
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	462
	Module Efficiency (%)	22.58	22.85	23.12	23.39	23.66
15%	Maximum Power (Pmax/W)	483	489	495	500	506
	Module Efficiency (%)	24.73	25.03	25.32	25.62	25.91
25%	Maximum Power (Pmax/W)	525	531	538	544	550
	Module Efficiency (%)	26.89	27.21	27.53	27.85	28.17

Mechanical Data

Cell Type	182×91mm
Cell Orientation	108(6×18)
Module Dimensions	1722×1134×30mm
Weight	24.0kg
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(Black)
Junction Box	Protection class IP68
Cable	4.0 mm ² positive pole: 200 mm negative pole: 250 mm wire length can be customized
Connector	MC4 compatible connector

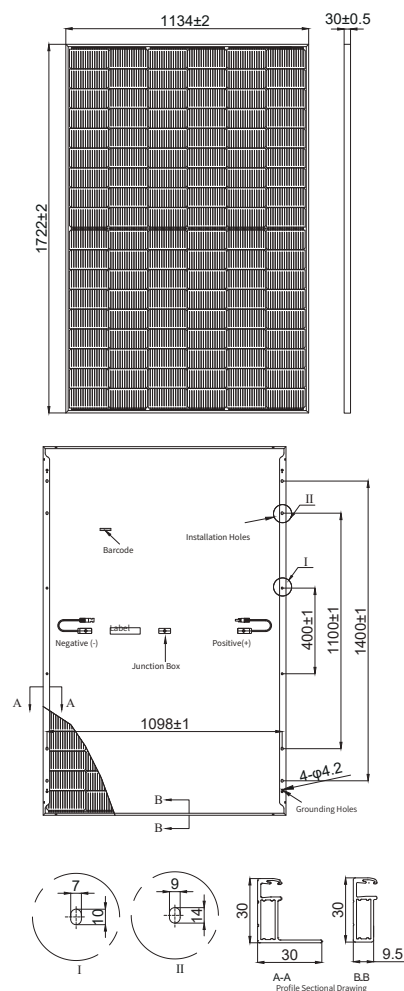
Temperature Coefficients

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

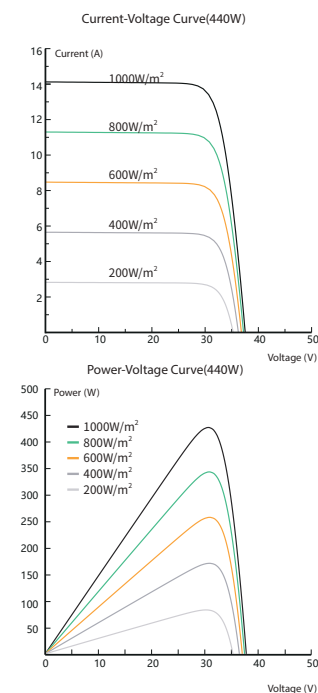
Packaging

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



Data contained in these specifications is subject to change without notice.
Haitai Solar reserves the right to final interpretation of content.

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