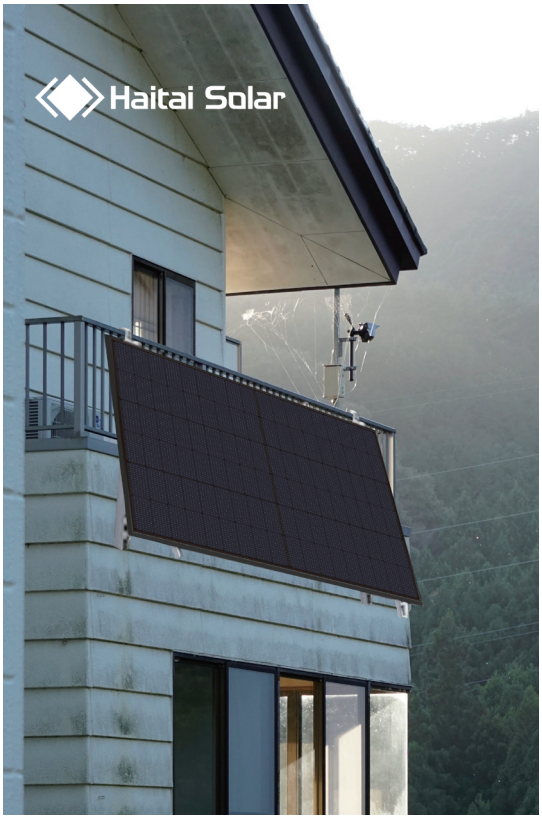


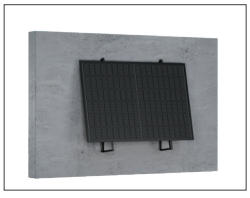
Haitai TaiHe 2.0 Balcony

HTM420~440DMH5-54NT

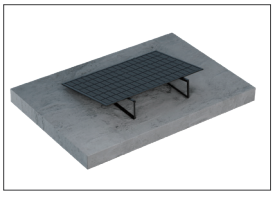
TOPCon Bifacial high efficiency PV module

Installation Scheme

Installed on a balcony with curved hooks



Install on the wall with expansion bolts



Installed on the concrete roof through expansion bolts

Increase renewable energy
The balcony PV system can provide renewable energy for household or commercial buildings, reduce the consumption of conventional energy, and contribute to environmental protection and sustainable development.

Energy cost savings
Power generation through balcony PV system can reduce the dependence on conventional power, reduce energy costs and lower household or commercial electricity bills.

Flexibility
Compared with roof-mounted or ground-mounted, the balcony PV system is more flexible and easier to install and maintain.

Convenient installation
The installation operation is simple and convenient, and only two people are required to complete the installation and disassembly.

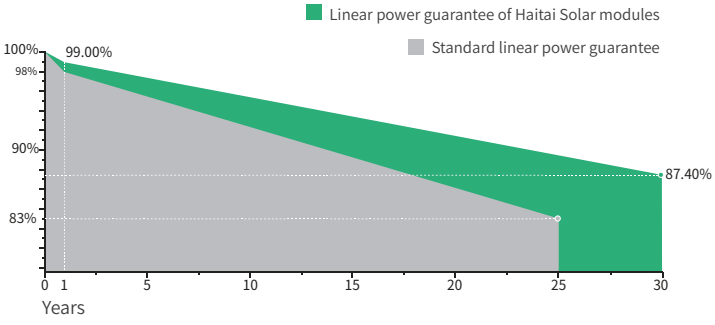
Utilization of space
Balcony is usually an underutilized area, and the installation of PV system can maximize the use of balcony space to generate clean energy.

Plug-and-play
Match with MC4 compatible plugs, plug-and-play, convenient and quick.

Remote monitoring and control
Users can use the APP to directly connect to the Bluetooth of the device for local monitoring, or log into the account for remote monitoring.

Various installation scenarios
It is suitable for a variety of installation scenarios, and can also be installed on the ground, roof and wall with expansion bolts.

Industry-leading linear power warranty



12 YEARS Product warranty period

30 YEARS Linear power warranty period

0.40 % 0.40% annual degradation rate for 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

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)	420	425	430	435	440
Open Circuit Voltage (Voc/V)	38.70	38.85	39.00	39.15	39.30
Short Circuit Current (Isc/A)	13.57	13.67	13.78	13.89	13.99
Voltage at Maximum Power (Vmp/V)	32.49	32.64	32.79	32.94	33.09
Current at Maximum Power (Imp/A)	12.93	13.03	13.12	13.21	13.30
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)	36.75	36.9	37.05	37.20	37.35
Short Circuit Current (Isc/A)	11.10	11.20	11.29	11.38	11.48
Voltage at Maximum Power (Vmp/V)	30.19	30.34	30.49	30.64	30.79
Current at Maximum Power (Imp/A)	10.48	10.56	10.64	10.72	10.79

NMOT (Nominal Moudule Operating Temperature): Irradiance 800W/m^2, Ambient Temperature 20°C , AM1.5, Wind Speed 1m/s.

Bifacial Power Generation Parameters (Bifacial 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 Dimension	1722×1134×30mm
Weight	24.0kg
Microinverter	APsystems EZ1-M
bracket	45", black
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(Black)
Junction Box	Protection class IP68
Cable	4.0 mm^2 positive pole: 200 mm negative pole: 250 mm wire length can be customized

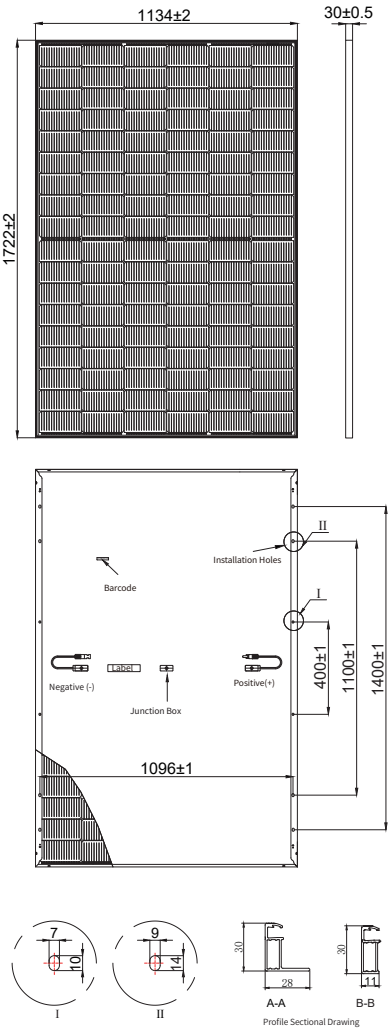
Temperature Coefficients

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

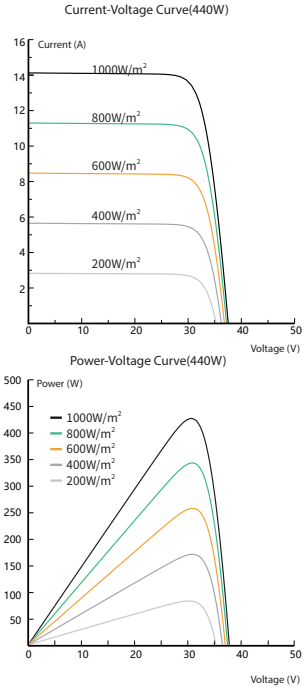
Packaging

Transportation methods	Number of modules per cabinet	Number of modules per pallet
40HQ container	364 Pcs	28 Pcs
20HQ container	168 Pcs	28 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.