Haitai Solar

TARZAN SERIES

HTM-TSB-425M2~445M2

Ultra-High Efficient Plate-Interconnection Monocrystalline PV Modules

ULTRA-HIGH POWER OUTPUT

Maximum power output can be increased by 15% compared with the standard modules when solar cells with the same efficiency are used

HOT-SPOT IMMUNITY

Excellent hot-spot immunity, can effectively avoid the power loss caused by shadow coverage, significantly extend life span

DURABILITY AND RELIABILITY ENHANCEMENTS

Microcrack free, easy installation, power generating capacity is more secured

LOW LCOE

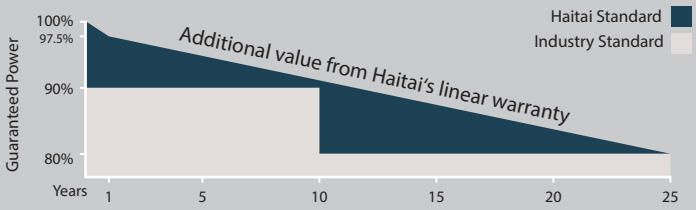
Savings in BOS and labour cost

PHOTOVOLTAIC TOP RUNNER

Pass top runner certificate of 'Pioneer of Parity' for monocrystalline silicon solar modules

LINEAR PERFORMANCE WARRANTY

12-year product warranty / 25-year linear power warranty



Mechanical Data

Cell	158.75mm Mono
Module Dimension	2151×994×40mm
Weight	24.0kg
Glass	3.2mm high transmittance, reinforced glass
Backsheet	Anti-aging film
Frame Material	Anodized aluminum alloy
Junction Box	Protection class IP68
Cable	4.0mm² photovoltaic special cable
Connector	MC4 compatible connector

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Electrical Data (STC)

Maximum Power (Pmax/W)	425	430	435	440	445
Voltage at Maximum Power (Vmp/V)	44.84	45.04	45.23	45.42	45.60
Current at Maximum Power (Imp/A)	9.48	9.55	9.62	9.69	9.76
Open Circuit Voltage (Voc/V)	53.62	53.88	54.13	54.38	54.62
Short Circuit Current (Isc/A)	10.02	10.09	10.16	10.23	10.30
Module Efficiency (%)	19.88	20.11	20.35	20.58	20.81

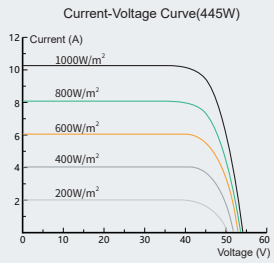
Electrical Data (NMOT)

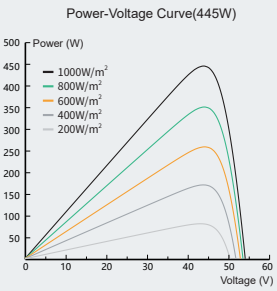
Maximum Power (Pmax/W)	318	322	326	330	334
Voltage at Maximum Power (Vmp/V)	41.80	42.10	42.40	42.70	43.01
Current at Maximum Power (Imp/A)	7.61	7.65	7.69	7.73	7.77
Open Circuit Voltage (Voc/V)	50.80	51.19	51.57	51.95	52.32
Short Circuit Current (Isc/A)	8.13	8.17	8.21	8.25	8.29

STC (Standard Testing Conditions): Irradiance 1000W/m², Cell Temperature 25°C, AM1.5

NMOT (Nominal Moudule Operating Temperature): Irradiance 800W/m², Ambient Temperature 20°C, AM1.5, Wind Speed 1m/s.

I-V Curve

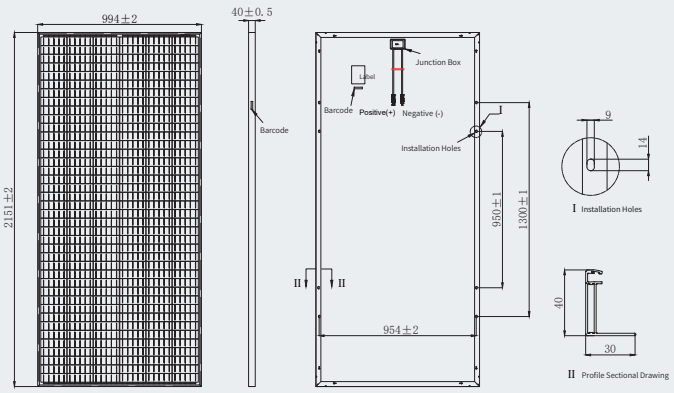




Temperature Coefficients

Temperature Coefficient (Pm)	-0.300%°C
Temperature Coefficient (Voc)	-0.290%°C
Temperature Coefficient (Isc)	0.050%°C

Module Dimensions (mm)



Operating Parameters

Maximum System Voltage	1000/1500V
Operating Temperature	-40°C ~+85°C
NMOT (Nominal Moudule Operating Temperature)	41±3°C

Packaging

Modules Per Pallet:27+27+4 pcs

Modules Per 40'HQ Container:580 pcs

Haitai Solar

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