



Half-Cell SERIES

HTM435~455MH3-72

Half-Cell Monocrystalline Silicon PV Modules



HIGH OUTPUT POWER

Output power is higher than the same type of conventional monocrystalline modules



ANTI-PID CHARACTERISTICS

Ensure large-scale production of half-cell monocrystalline modules pass PID test



HOT-SPOT EFFECT

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



LOAD CAPACITY

Certified to withstand wind load (2400 Pascal) and snow load (5400 Pascal)

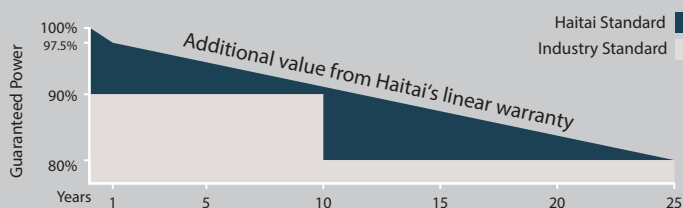


HARSH ENVIRONMENT ADAPTATION

High salt mist and ammonia resistance certified by TUV

LINEAR PERFORMANCE WARRANTY

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



Mechanical Data

Cell Type	166×83mm Mono
Cell Orientation	144(6×24)
Module Dimensions	2094×1038×35mm
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	4.0 mm ² positive pole: 300 mm negative pole: 400 mm wire length can be customized
Connector	MC4 compatible connector

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Electrical Data (STC)

Maximum Power (Pmax/W)	435	440	445	450	455
Voltage at Maximum Power (Vmp/V)	40.34	40.54	40.74	40.94	41.14
Current at Maximum Power (Imp/A)	10.79	10.86	10.93	11.00	11.07
Open Circuit Voltage (Voc/V)	48.88	49.08	49.28	49.48	49.68
Short Circuit Current (Isc/A)	11.32	11.39	11.46	11.53	11.59
Module Efficiency (%)	20.01	20.24	20.47	20.70	20.93

Electrical Data (NMOT)

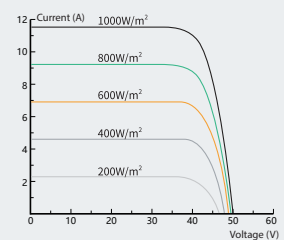
Maximum Power (Pmax/W)	324	328	332	336	340
Voltage at Maximum Power (Vmp/V)	37.14	37.34	37.54	37.74	37.94
Current at Maximum Power (Imp/A)	8.73	8.79	8.85	8.91	8.97
Open Circuit Voltage (Voc/V)	44.81	45.01	45.21	45.41	45.61
Short Circuit Current (Isc/A)	9.39	9.46	9.54	9.61	9.67

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

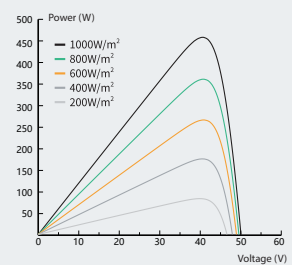
NMOT (Nominal Module Operating Temperature): Irradiance 800W/m², Ambient Temperature 20°C, AM1.5, Wind Speed 1m/s.

I-V Curve

Current-Voltage Curve(455W)



Power-Voltage Curve(455W)



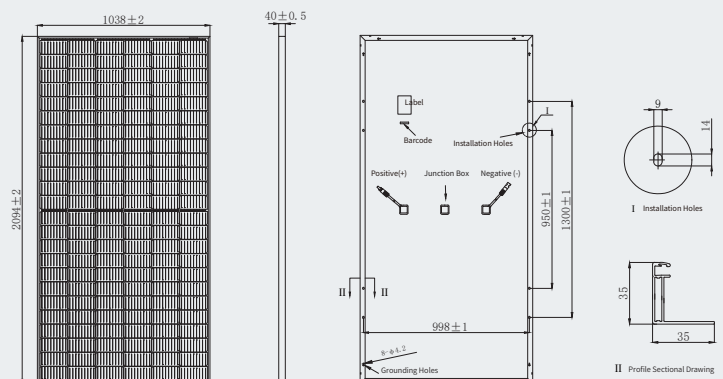
Temperature Coefficients

Temperature Coefficient (Pm)	-0.350%/°C
Temperature Coefficient (Voc)	-0.270%/°C
Temperature Coefficient (Isc)	0.048%/°C

Operating Parameters

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

Module Dimensions (mm)



Packaging

Modules Per Pallet: 31+31 pcs / 31+31+2 pcs
Modules Per 40'HQ Container: 682 pcs / 704 pcs

 **Haitai Solar**

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