



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)

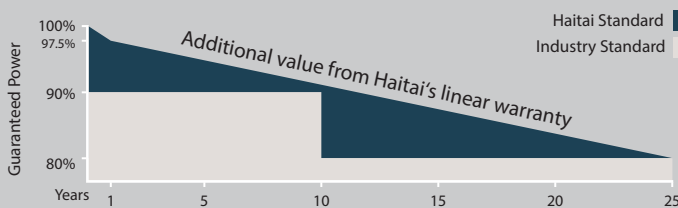


HARSH ENVIRONMENT ADAPTATION

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)

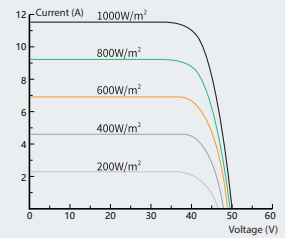
Maximum Power (Pmax/W)	324	328	332	336	340
Voltage at Maximum Power (Vmp/V)	37.14	37.34	37.54	37.74	37.94
Current at Maximum Power (Imp/A)	8.73	8.79	8.85	8.91	8.97
Open Circuit Voltage (Voc/V)	44.81	45.01	45.21	45.41	45.61
Short Circuit Current (Isc/A)	9.39	9.46	9.54	9.61	9.67

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

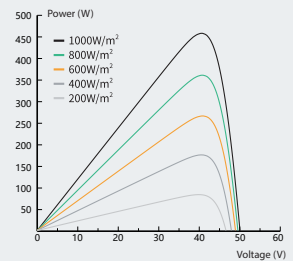
NMOT (Nominal Module Operating Temperature): Irradiance 800W/m², Ambient Temperature 20°C, AM1.5, Wind Speed 1m/s.

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

Packaging

Modules Per Pallet: 31+31 pcs / 31+31+2 pcs

Modules Per 40'HQ Container: 682 pcs / 704 pcs

Module Dimensions (mm)

