



**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



### HOT-SPOT EFFECT

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

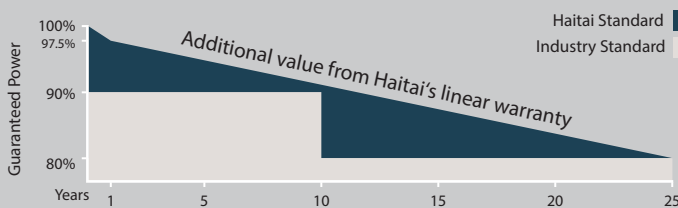


### LOAD CAPACITY

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

## 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	2094×1038×40mm
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	4.0 mm <sup>2</sup> positive pole: 300 mm negative pole: 400 mm wire length can be customized
Connector	Jiangsu Holysun: Type C1 or C2 Suzhou Xtong: Type PV-XT101 Zhejiang RenHe: Type 05-8 Jiangsu Tiansheng: Type TS02 Stäubli Electrical: Type PV-KST4-EVO2/XY; PV-KBT4-EVO2/XY
Maximum Series Fuse Rating	20A
Fire Safety Class	Class C

## HTM435~455MH3-72

### Bifacial Half-Cell Monocrystalline Silicon PV Modules

## Electrical Data (STC)

Maximum Power (Pmax/W)	435	440	445	450	455
Tolerance	±3%	±3%	±3%	±3%	±3%
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

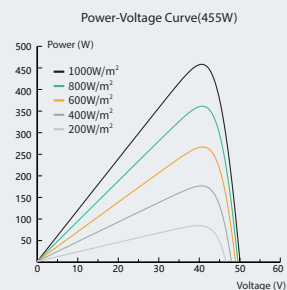
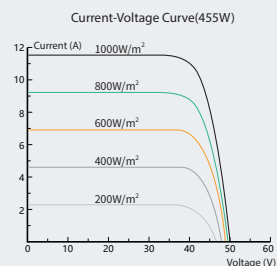
## Electrical Data (NMOT)

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/m<sup>2</sup>, Cell Temperature 25°C, AM1.5

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

## I-V Curve



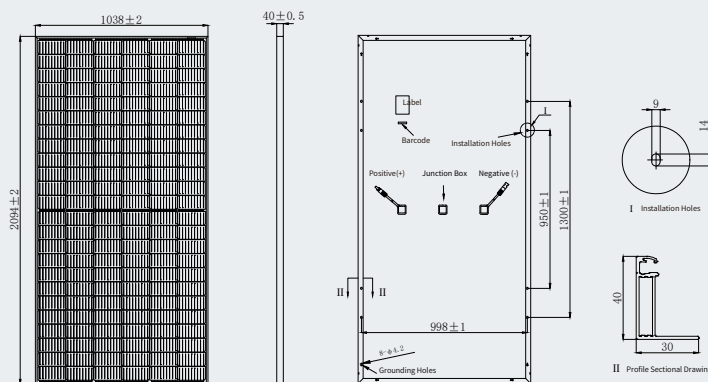
## Temperature Coefficients

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

## Operating Parameters

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

## Module Dimensions (mm)



## Packaging

Modules Per Pallet: 27+27pcs / 27+27+2pcs  
 Modules Per 40'HQ Container: 594pcs / 616pcs

 **Haitai Solar**