Haitai Solar

Half-Cell SERIES

HTM435~455MH5-60

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

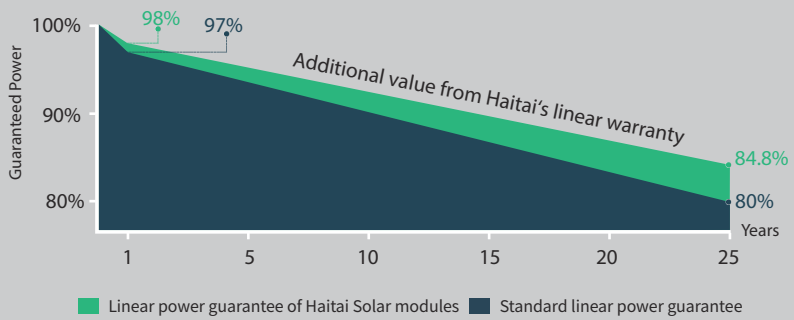
HOT-SPOT EFFECT

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)

LINEAR PERFORMANCE WARRANTY



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

Linear attenuation of 0.55% per year within 25 years

TIER1 Bloomberg New Energy Finance

Mechanical Data

Cell Type	182×91mm Mono
Cell Orientation	120(6×20)
Module Dimensions	1909×1134×35mm
Weight	25.0kg
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

HTM435~455MH5-60

Half-Cell Monocrystalline Silicon PV Modules

Electrical Data (STC)

Maximum Power (Pmax/W)	435	440	445	450	455
Open Circuit Voltage (Voc/V)	40.80	40.95	41.10	41.25	41.40
Short Circuit Current (Isc/A)	13.34	13.41	13.52	13.62	13.72
Voltage at Maximum Power (Vmp/V)	33.76	33.91	34.06	34.21	34.36
Current at Maximum Power (Imp/A)	12.89	12.98	13.07	13.16	13.25
Module Efficiency (%)	20.09	20.33	20.56	20.79	21.02

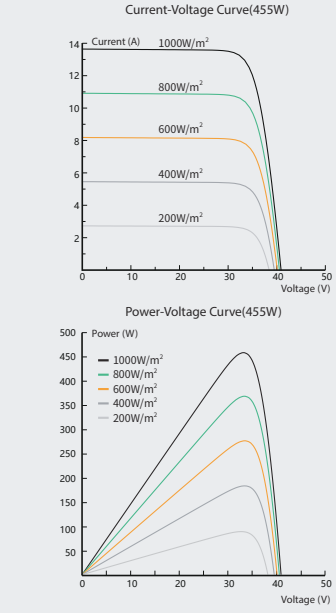
Electrical Data (NMOT)

Maximum Power (Pmax/W)	326	330	334	338	342
Open Circuit Voltage (Voc/V)	37.61	37.76	37.91	38.06	38.21
Short Circuit Current (Isc/A)	11.11	11.19	11.28	11.36	11.45
Voltage at Maximum Power (Vmp/V)	31.19	31.34	31.49	31.64	31.79
Current at Maximum Power (Imp/A)	10.46	10.54	10.62	10.69	10.77

STC (Standard Testing Conditions): Irradiance 1000W/m^2, Cell Temperature 25°C, AM1.5

NMOT (Nominal Moudule Operating Temperature): Irradiance 800W/m^2, 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

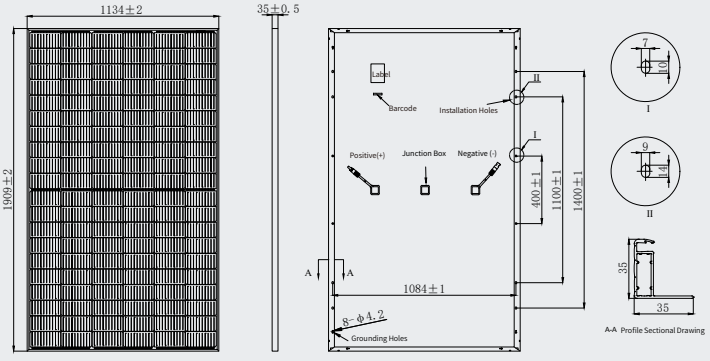
Maximum System Voltage	1000/1500V
Operating Temperature	-40°C ~+85°C
NMOT (Nominal Moudule Operating Temperature)	41±3°C

Packaging

Modules Per Pallet: 31+31pcs

Modules Per 40'HQ Container: 744pcs

Module Dimensions (mm)



*Due to continuous innovation, R & D and product improvement, Haitai Solar has the right to adjust the specs on this datasheet at any time without prior notice.

Haitai Solar

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