



Half-Cell SERIES

HTM525~545MH5-72

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



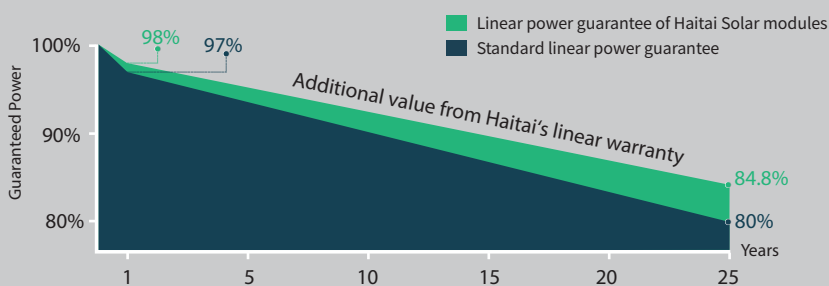
LOAD CAPACITY

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

LINEAR PERFORMANCE WARRANTY

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

Linear attenuation of 0.55% per year within 25 years



Mechanical Data

Cell Type	182×91mm Mono
Cell Orientation	144(6×24)
Module Dimensions	2279×1134×35mm
Weight	29.0kg
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)	525	530	535	540	545
Voltage at Maximum Power (Vmp/V)	40.58	40.73	40.88	41.03	41.18
Current at Maximum Power (Imp/A)	12.95	13.02	13.10	13.17	13.24
Open Circuit Voltage (Voc/V)	49.08	49.23	49.38	49.53	49.68
Short Circuit Current (Isc/A)	13.39	13.46	13.54	13.63	13.71
Module Efficiency (%)	20.31	20.51	20.70	20.89	21.09

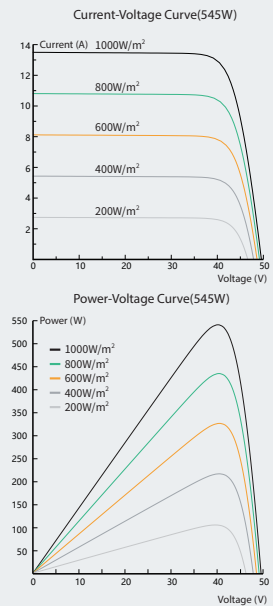
Electrical Data (NMOT)

Maximum Power (Pmax/W)	392	396	400	404	408
Voltage at Maximum Power (Vmp/V)	37.34	37.49	37.64	37.79	37.94
Current at Maximum Power (Imp/A)	10.51	10.57	10.64	10.70	10.77
Open Circuit Voltage (Voc/V)	45.11	45.26	45.41	45.56	45.71
Short Circuit Current (Isc/A)	11.14	11.22	11.29	11.37	11.44

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



Temperature Coefficients

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

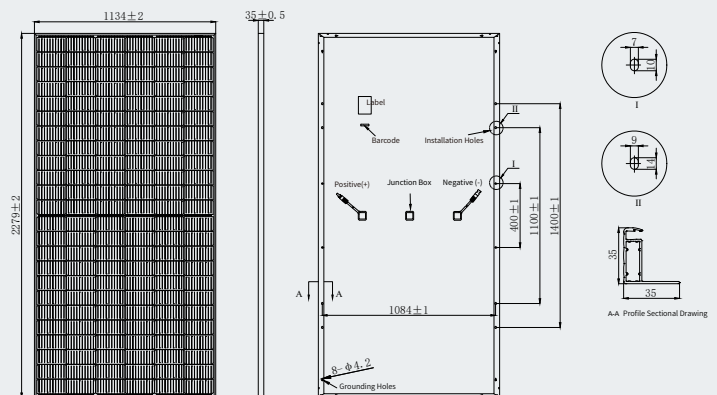
Operating Parameters

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

Packaging

Modules Per Pallet: 31+31pcs
 Modules Per 40'HQ Container: 620pcs

Module Dimensions (mm)



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*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.