

POWER RANGE

585-610W

HNM7-SHLDD156 Series

Houen Solar 10BB HALF-CELL Bifacial Double Glass
Monocrystalline P-TYPE Solar Module

KEY FEATURES



Excellent Cells Efficiency

MBB technology reduce the distance between busbars and finger grid line which is benefit to power increase.



Anti PID

Ensured PID resistance through the quality control of cell manufacturing process and raw materials.



Bifacial Technology

Up to 25% additional power gain from back side depending on albedo.



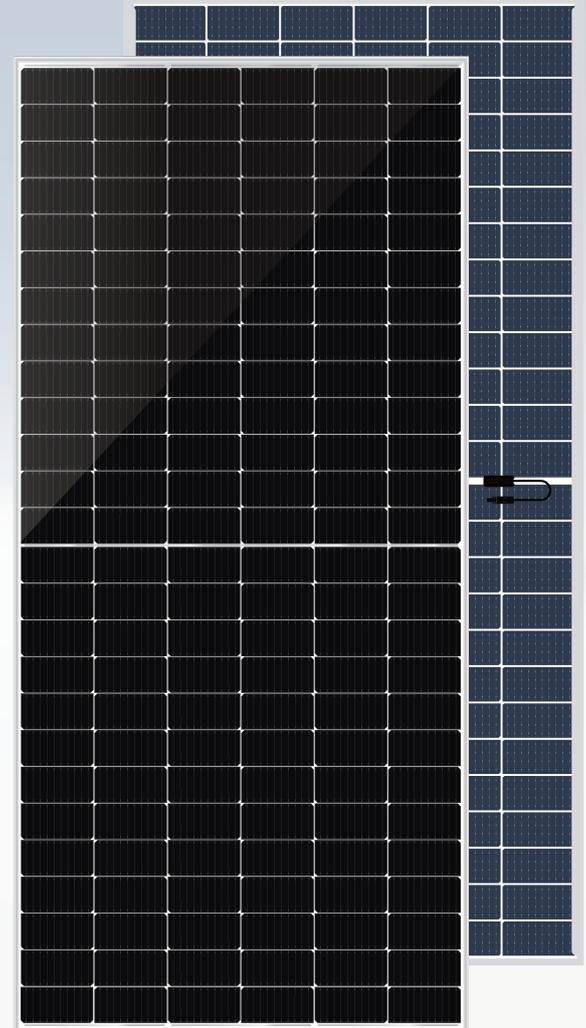
Better Weak Illumination Response

More power output in weak light condition, such as haze, cloudy, and early morning.

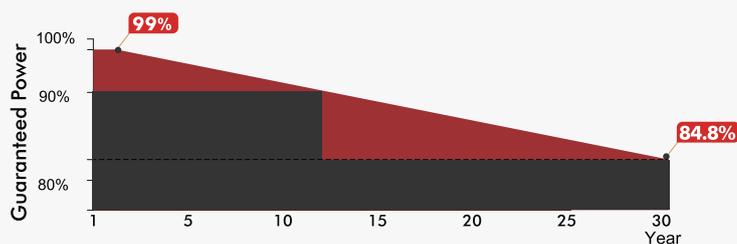


Adapt To Harsh Outdoor Environment

Resistant to harsh environments such as salt, ammonia, sand, high temperature and high humidity environment.



LINEAR PERFORMANCE WARRANTY



WARRANTY



Product
Warranty



Power
Warranty

SYSTEM AND PRODUCT CERTIFICATIONS:

IEC61730, UL61730

ISO9001:2015: Quality Management System

ISO14001:2015: Environment Management System

ISO45001:2018 Occupational Health and Safety Management Systems



610W

MAXIMUM POWER OUTPUT

21.82%

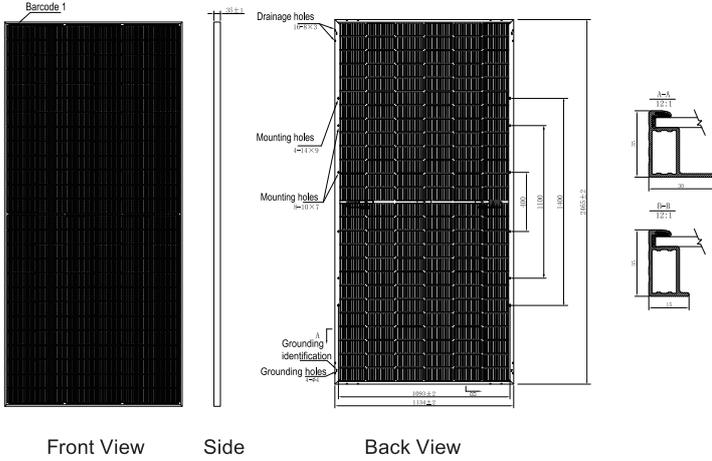
MAXIMUM EFFICIENCY

70±10%

BIFACIALITY

DIMENSIONS OF PV MODULE

Unit: mm



MECHANICAL DATA

| | |
|------------------|---|
| Solar cells | Mono P-Type |
| Number of cells | 156 (6x26) |
| Module dimension | 2465x 1134 x 35mm (With Frame) |
| Weight | 34.5±1kg |
| Glass | 2.0 mm+2.0mm, High Transmission, AR Coated Tempered Glass |
| Junction Box | IP68, 3 diodes |
| Cables | 4 mm ² , 1200mm (With Connectors) |
| Connectors | MC4 (PV-KST4/6II-UR,PV-KBT4/6II-UR) |

PACKAGING CONFIGURATION

| | |
|-----------------|-------|
| Container | 40'HQ |
| Piece/Box | 31 |
| Piece/Container | 496 |

*Customized frame color available upon request.

*Customized packaging is available upon request.

ELECTRICAL CHARACTERISTICS

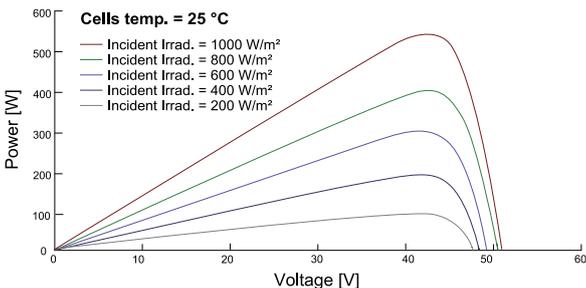
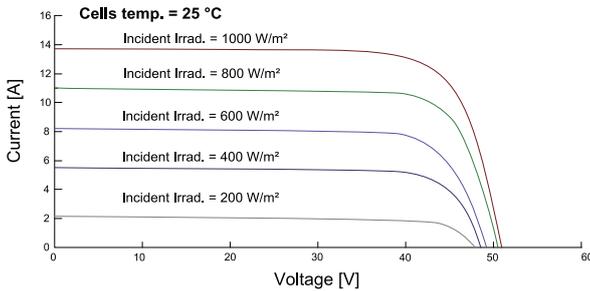
| Module Type | HNM7-SHLDD156-585/M | | HNM7-SHLDD156-590/M | | HNM7-SHLDD156-595/M | | HNM7-SHLDD156-600/M | | HNM7-SHLDD156-605/M | | HNM7-SHLDD156-610/M | |
|------------------------------|---------------------|--------|---------------------|--------|---------------------|--------|---------------------|--------|---------------------|--------|---------------------|--------|
| | STC | NMOT |
| STC/NMOT | | | | | | | | | | | | |
| Nominal Power Watt Pmax(W)* | 585 | 436.10 | 590 | 439.90 | 595 | 443.40 | 600 | 447.00 | 605 | 450.60 | 610 | 453.10 |
| Maximum Power Voltage Vmp(V) | 44.90 | 41.60 | 45.10 | 41.80 | 45.30 | 42.00 | 45.50 | 42.20 | 45.70 | 42.30 | 45.90 | 42.50 |
| Maximum Power Current Imp(A) | 13.03 | 10.48 | 13.09 | 10.52 | 13.14 | 10.56 | 13.19 | 10.60 | 13.24 | 10.64 | 13.29 | 10.66 |
| Open Circuit Voltage Voc(V) | 53.20 | 49.70 | 53.40 | 49.80 | 53.60 | 50.00 | 53.80 | 50.20 | 54.00 | 50.40 | 54.20 | 50.50 |
| Short Circuit Current Isc(A) | 13.78 | 11.13 | 13.83 | 11.17 | 13.88 | 11.21 | 13.93 | 11.25 | 13.98 | 11.29 | 14.03 | 11.33 |
| Module Efficiency (%) | 20.93 | | 21.11 | | 21.29 | | 21.46 | | 21.64 | | 21.82 | |

*The data above is for reference only and the actual data is in accordance with the practical testing
 *STC (Standard Test Condition): Irradiance 1000W/m², Module Temperature 25±2°C, AM 1.5.
 *NMOT: Irradiance 800W/m², Ambient Temperature 20°C, AM 1.5, Wind Speed 1m/s.
 *Measuring uncertainty: ±3%, Power tolerance: ±3%

*Electrical data in this catalog do not refer to a single module and they are not part of the offer.
 *They only serve for comparison among different module types.
 *All the electrical characteristics such as Im, Vm, Isc, Voc and FF are within ±5% tolerance.

I-V & P-V CURVES

(605W)



BIFACIAL OUTPUT-REAR SIDE POWER GAIN

| | Maximum Power (Pmax) | 614Wp | 620Wp | 625Wp | 630Wp | 635Wp | 641Wp |
|-----|----------------------------|--------|--------|--------|--------|--------|--------|
| 5% | Maximum Efficiency STC (%) | 21.97% | 22.16% | 22.35% | 22.54% | 22.73% | 22.91% |
| 15% | Maximum Power (Pmax) | 673Wp | 679Wp | 684Wp | 690Wp | 696Wp | 702Wp |
| | Maximum Efficiency STC (%) | 24.07% | 24.27% | 24.48% | 24.68% | 24.89% | 25.10% |
| 25% | Maximum Power (Pmax) | 731Wp | 738Wp | 744Wp | 750Wp | 756Wp | 763Wp |
| | Maximum Efficiency STC (%) | 26.16% | 26.38% | 26.61% | 26.83% | 27.05% | 27.28% |

WORKING CONDITIONS

| | |
|----------------------------|-------------|
| Maximum System Voltage | 1500VDC |
| Operating Temperature | -40°C~+85°C |
| Maximum Fuse Rating | 30A |
| Rear Side Mechanical Load | 2400Pa |
| Front Side Mechanical Load | 5400Pa |
| Safety Class | Class II |

TEMPERATURE RATINGS

| | |
|---------------------------------|-----------|
| NMOT | 44°C±2°C |
| Temperature coefficient of Pmax | -0.35%/°C |
| Temperature coefficient of Voc | -0.29%/°C |
| Temperature coefficient of Isc | 0.05%/°C |
| Refer. Bifacial Factor | 70±10% |

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