Committed to Delivering Clean Energy

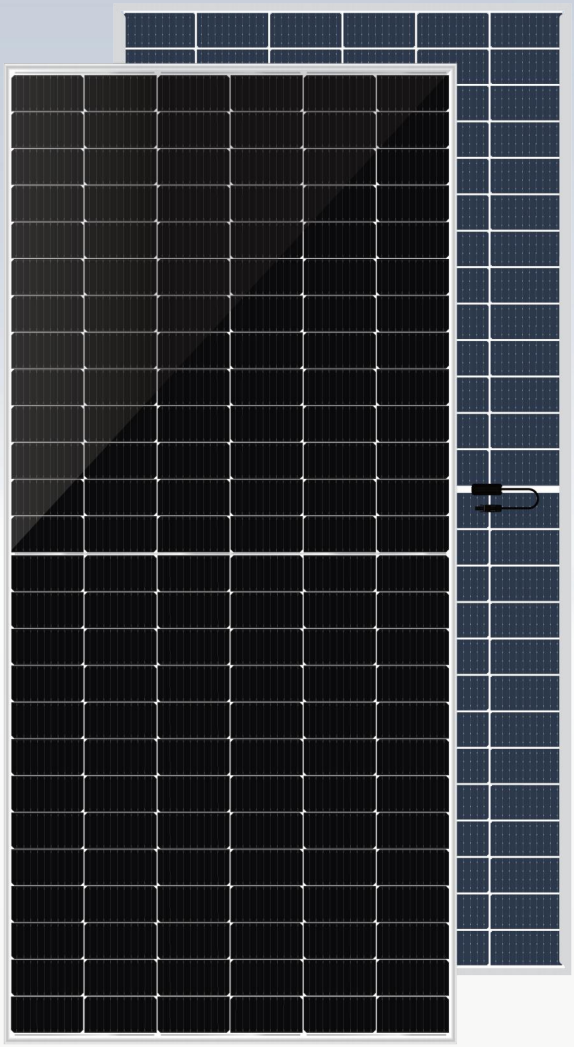
Hounen Solar

POWER RANGE

585-610W

HNM7-SHLDD156 Series

Hounen 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.

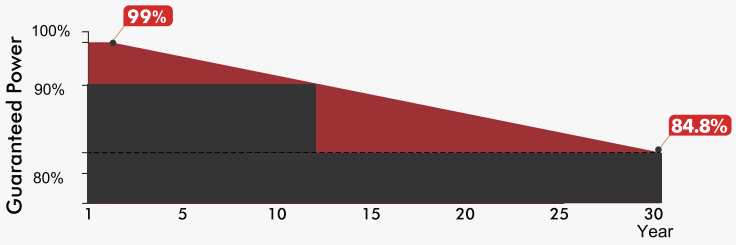
Anti PID
Ensured PID resistance through the quality control of cell manufacturing process and raw materials.

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

12 YEARS Product Warranty

30 YEARS 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

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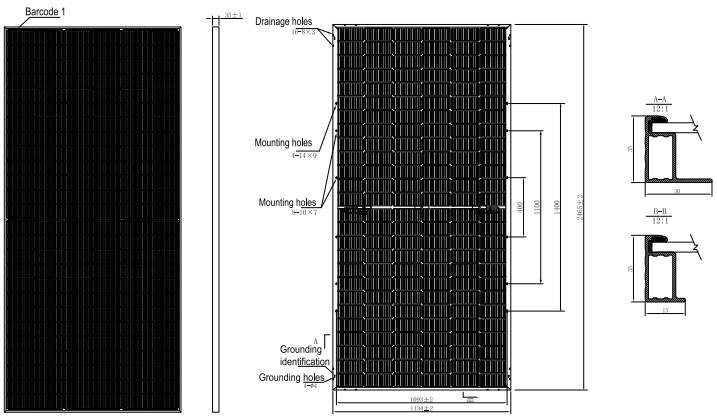
610W
MAXIMUM POWER OUTPUT

21.82%
MAXIMUM EFFICIENCY

70±10%
BIFACIALITY

DIMENSIONS OF PV MODULE

Unit: mm



Front View Side Back View

*Customized frame color available upon request.

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 mm², 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 packaging is available upon request.

ELECTRICAL CHARACTERISTICS

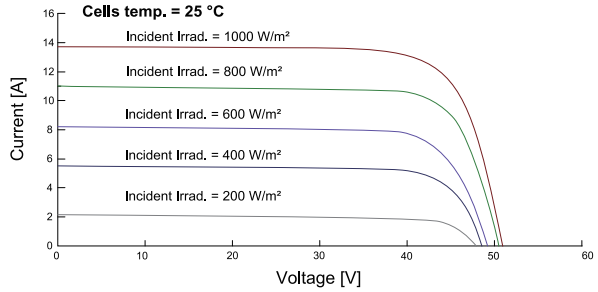
Module Type	HNM7-SHLDD156-585/M		HNM7-SHLDD156-590/M		HNM7-SHLDD156-595/M		HNM7-SHLDD156-600/M		HNM7-SHLDD156-605/M		HNM7-SHLDD156-610/M	
STC/NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Nominal Power Watt Pmax(W)*	585	436.10	590	439.90	595	443.40	600	447.00	605	450.60	610	453.10
Maximum 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	

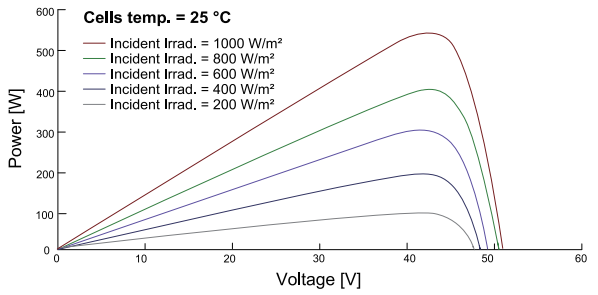
*The data above is for reference only and the actual data is in accordance with the pratical testing
*STC (Standard Test Condition): Irradiance 1000W/m², Module Temperature 25±2℃, AM 1.5.
*NMOT: Irradiance 800W/m², Ambient Temperature 20℃, AM 1.5, Wind Speed 1m/s.
*Measuring uncertainity: ±3%, Power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

5%	Maximum Power (Pmax)	614Wp	620Wp	625Wp	630Wp	635Wp	641Wp
	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℃~+85℃
Maximum Fuse Rating	30A
Rear Side Mechanical Load	2400Pa
Front Side Mechanical Load	5400Pa
Safety Class	Class Ⅱ

TEMPERATURE RATINGS

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

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