


POWER RANGE

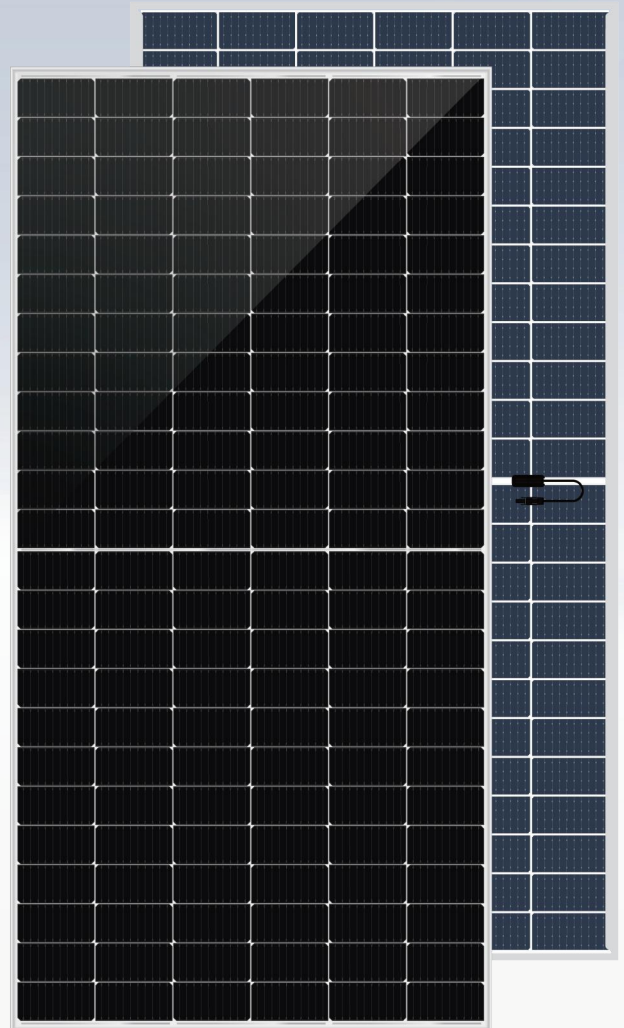
535-560W

HNM7-SHDB144 Series

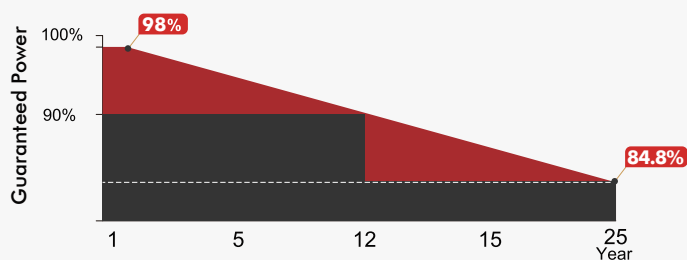
Houнен Solar 10BB HALF-CELL Bifacial Monocrystalline P - TYPE Solar Module

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



SYSTEM AND PRODUCT CERTIFICATIONS:

IEC61730, UL61730
 ISO9001:2015: Quality Management System
 ISO14001:2015: Environment Management System
 ISO45001:2018 Occupational health and safety management systems
 California Energy Commission (CEC) Approval



560W

MAXIMUM POWER OUTPUT

21.68%

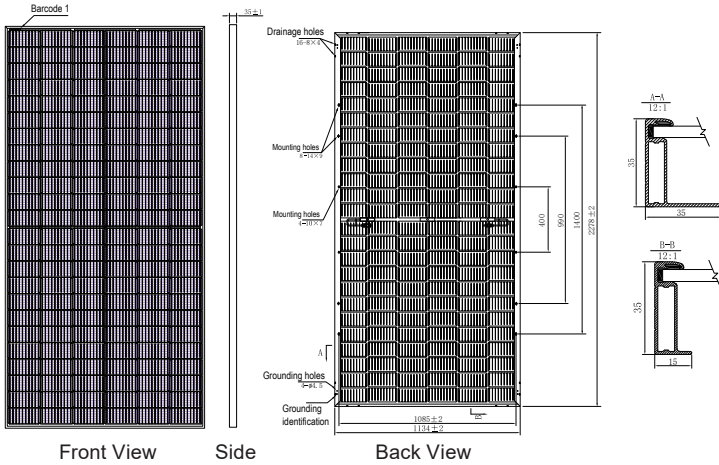
MAXIMUM EFFICIENCY

70±5%

BIFACIALITY

DIMENSIONS OF PV MODULE

Unit: mm



*Customized frame color available upon request.

MECHANICAL DATA

Solar cells	Mono P-Type
Number of cells	144 (6x24)
Module dimension	2278 x 1134 x 35mm (with frame)
Weight	28±1 kg
Glass	3.2mm, 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	620

*Customized packaging is available upon request.

ELECTRICAL CHARACTERISTICS

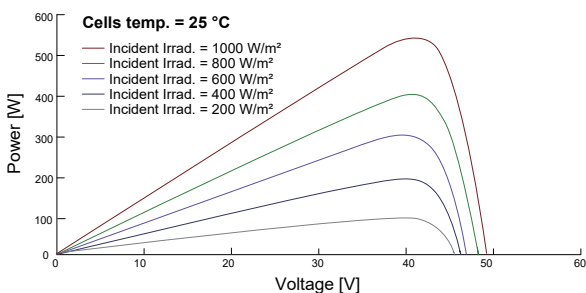
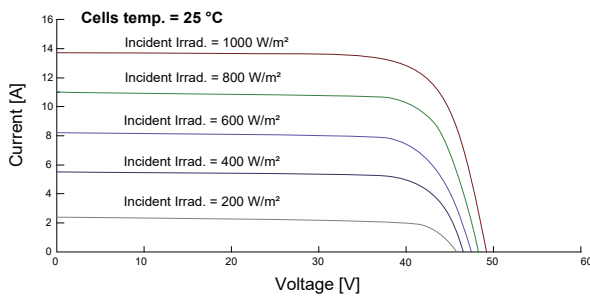
Module Type	HNM7-SHDB144-535/M		HNM7-SHDB144-540/M		HNM7-SHDB144-545/M		HNM7-SHDB144-550/M		HNM7-SHDB144-555/M		HNM7-SHDB144-560/M	
	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Nominal Power Watt Pmax(W)*	535	399.90	540	403.60	545	406.80	550	410.80	555	414.60	560	418.10
Maximum Power Voltage Vmp(V)	41.30	38.40	41.50	38.80	41.70	38.80	41.90	38.90	42.10	39.10	42.30	39.30
Maximum Power Current Imp(A)	12.96	10.42	13.02	10.49	13.07	10.49	13.13	10.56	13.19	10.61	13.24	10.64
Open Circuit Voltage Voc(V)	49.60	46.30	49.80	46.70	50.00	49.70	50.20	46.90	50.40	47.10	50.60	47.20
Short Circuit Current Isc(A)	13.71	11.07	13.77	11.17	13.83	11.17	13.89	11.22	13.95	11.27	14.01	11.31
Module Efficiency (%)	20.71		20.90		21.10		21.29		21.48		21.68	

*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

(530W)



BIFACIAL OUTPUT-REAR SIDE POWER GAIN

5%	Maximum Power (Pmax)	562Wp	567Wp	572Wp	578Wp	583Wp	588Wp
	Maximum Efficiency STC (%)	21.76%	21.95%	22.14%	22.37%	22.57%	22.76%
15%	Maximum Power (Pmax)	615Wp	621Wp	627Wp	633Wp	638Wp	644Wp
	Maximum Efficiency STC (%)	23.81%	24.04%	24.27%	24.50%	24.70%	24.93%
25%	Maximum Power (Pmax)	669Wp	675Wp	681Wp	688Wp	694Wp	700Wp
	Maximum Efficiency STC (%)	25.90%	26.13%	26.36%	26.63%	26.87%	27.10%

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±5%

HOUNEN SOLAR AMERICA INC.

145 Millenium Drive, Orangeburg, SC 29115
 Tel: 855-468-6365 www.houensolar.com
 Sales@houensolar.com

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