

## POWER RANGE

# 610-630W

## HNM7-UHLDD156 Series

Houmen Solar 16BB HALF-CELL Bifacial Double Glass  
Monocrystalline N - TYPE Solar Module

## KEY FEATURES



### Excellent Cells Efficiency

SMBB 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.



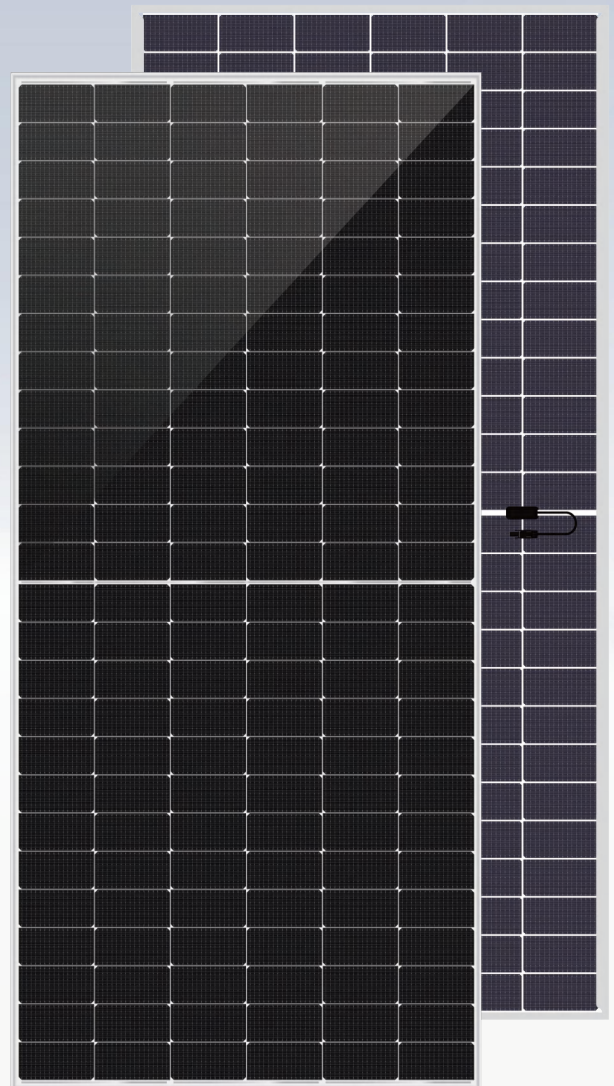
### Better Weak Illumination Response

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

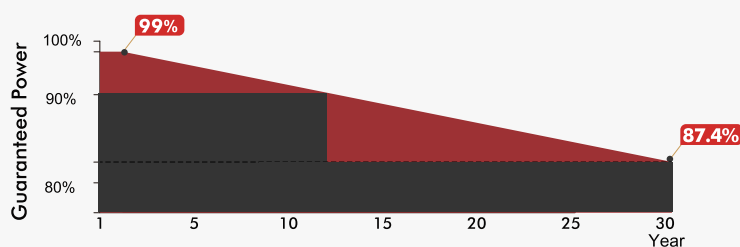


### Adapt To Harsh Outdoor Environment

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



# 630W

MAXIMUM POWER OUTPUT

# 22.54%

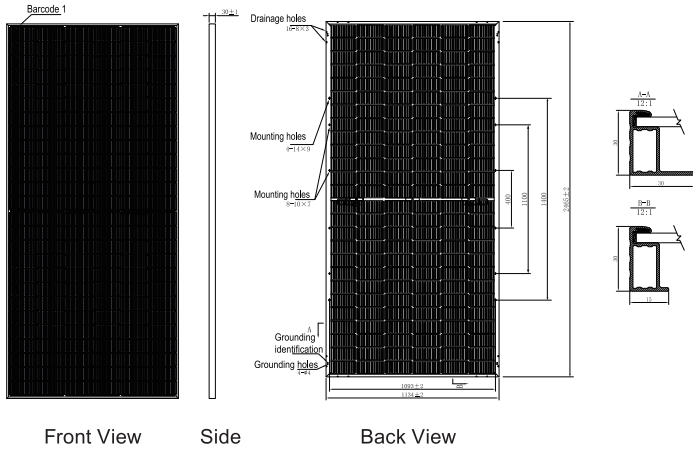
MAXIMUM EFFICIENCY

# 80±10%

BIFACIALITY

## DIMENSIONS OF PV MODULE

Unit: mm



\*Customized frame color available upon request.

## MECHANICAL DATA

Solar cells	Mono N-Type
Number of cells	156 (6x26)
Module dimension	2465x1134x35 (With Frame)
Weight	34.0±1 kg
Glass	2.0 mm+2.0mm, High Transmission, AR Coated Heat Strengthened Glass
Junction Box	IP68, 3 diodes
Cables	4 mm <sup>2</sup> , 1200mm (With Connectors)
Connectors	MC4-EVO2

## PACKAGING CONFIGURATION

Container	40'HQ
Piece/Box	36
Piece/53' Truck	576

\*Customized packaging is available upon request.

## ELECTRICAL CHARACTERISTICS

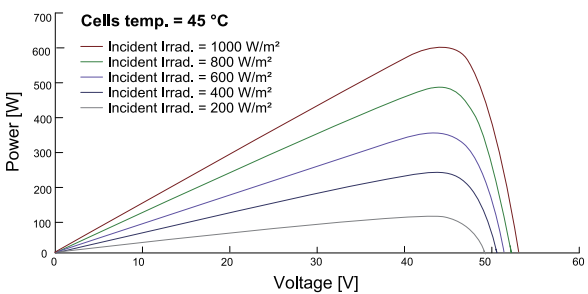
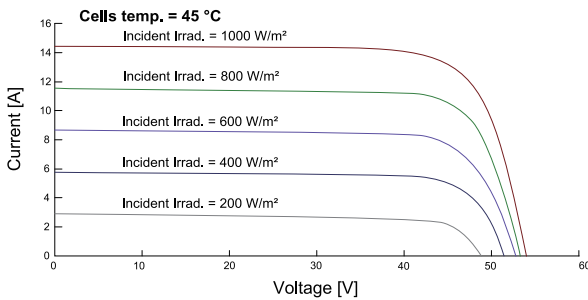
Module Type	HNM7-UHLDD156-610/M		HNM7-UHLDD156-615/M		HNM7-UHLDD156-620/M		HNM7-UHLDD156-625/M		HNM7-UHLDD156-630/M	
	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Nominal Power Watt Pmax(W)*	610	460.5	615	464.1	620	467.8	625	471.5	630	475.2
Maximum Power Voltage Vmp(V)	45.70	43.00	45.90	43.20	46.10	43.40	46.30	43.60	46.50	43.70
Maximum Power Current Imp(A)	13.35	10.71	13.40	10.75	13.45	10.79	13.50	10.83	13.55	10.86
Open Circuit Voltage Voc(V)	50.10	52.00	55.30	52.20	55.50	52.40	55.70	52.50	55.90	52.70
Short Circuit Current Isc(A)	14.11	11.39	14.16	11.43	14.21	11.47	14.26	11.51	14.31	11.55
Module Efficiency (%)	21.82		22.00		22.18		22.36		22.54	

\*The data above is for reference only and the actual data is in accordance with the practical testing  
 \*STC (Standard Test Condition): Irradiance 1000W/m<sup>2</sup>, Module Temperature 25±2°C, AM 1.5.  
 \*NMOT: Irradiance 800W/m<sup>2</sup>, 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

(630W)



## BIFACIAL OUTPUT-REAR SIDE POWER GAIN

	Maximum Power (Pmax)	641Wp	646Wp	651Wp	656Wp	662Wp
5%	Maximum Efficiency STC (%)	22.91%	23.10%	23.29%	23.48%	23.66%
15%	Maximum Power (Pmax)	702Wp	707Wp	713Wp	719Wp	725Wp
	Maximum Efficiency STC (%)	25.10%	25.30%	25.51%	25.71%	25.92%
25%	Maximum Power (Pmax)	763Wp	769Wp	775Wp	781Wp	788Wp
	Maximum Efficiency STC (%)	27.28%	27.50%	27.73%	27.95%	28.17%

## 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	-0.30%/C
Temperature coefficient of Voc	-0.25%/C
Temperature coefficient of Isc	0.046%/C
Refer. Bifacial Factor	80±10%

## HOUNEN SOLAR AMERICA INC.

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

The specification and key features described in this datasheet may deviate slightly and are not guaranteed. Hounen solar reserves the right to make any adjustment to the information described herein at any time without notice. Please always obtain the latest version of the datasheet which shall be duly incorporated into the binding contract made by the parties governing all transactions related to the purchase and sale of the products described herein.