

# 430-450 Watt Module HC 96

Mono-Crystalline N Type  
Dual Glass Bifacial Full Black

### Complete System and Product Certifications

IEC 61215, IEC 61730, UL 61730  
ISO 9001:2015:ISO Quality Management System  
ISO 14001:2015:ISO Environment Management System  
ISO 45001:Occupational Health and Safety

## KEY FEATURES



**Multi Busbar Solar Cell**



**High Efficiency**



**PID Resistance**



**Low-light Performance**

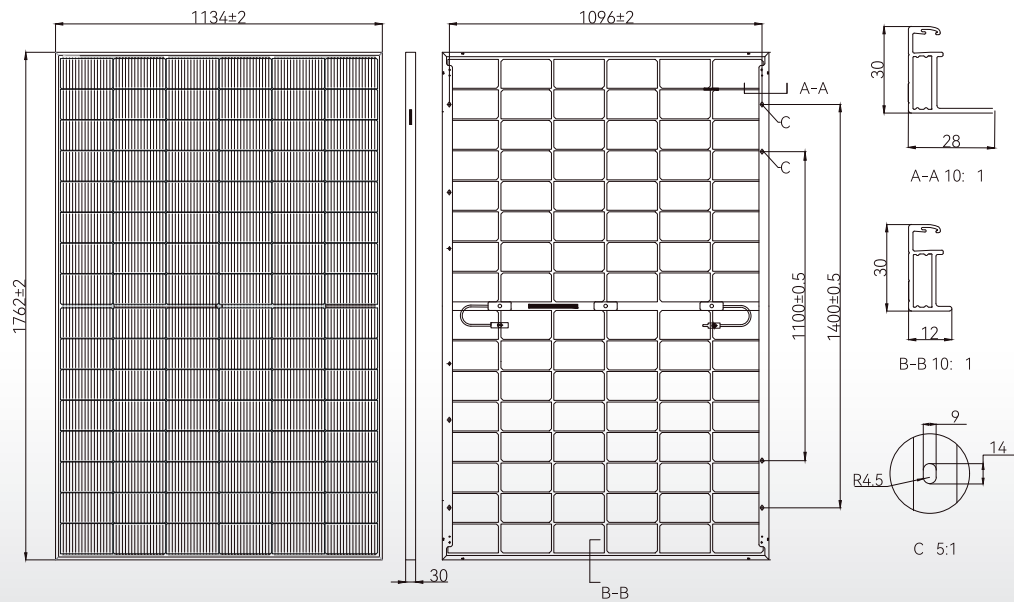


**Severe Weather Resilience**



**Durability Against Extreme  
Environmental Conditions**

## ENGINEERING DRAWINGS

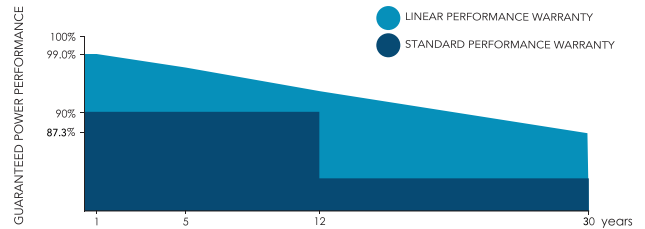


## PACKAGING CONFIGURATION (Two pallets = One stack)

36 pcs/pallet, 72pcs/stack, 900pcs/53FT Truck



## LINEAR PERFORMANCE WARRANTY

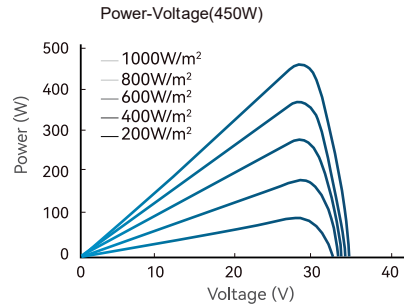
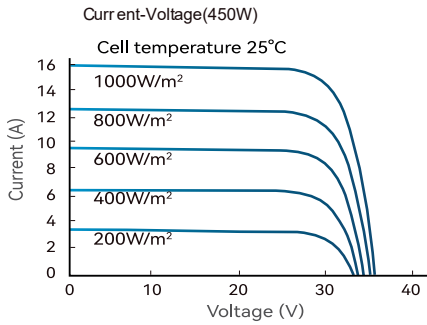


Up to 15-Year Product Warranty

30-Year Linear Power Warranty



## ELECTRICAL PERFORMANCE & TEMPERATURE DEPENDENCE



## MECHANICAL CHARACTERISTICS

Cell Type	N-type mono-crystalline
No. of Half-cells	96 (6x16)
Dimensions	1762 x 1134 x 30 mm (69.73 x 44.64 x 1.18 inch)
Weight	21.0 kg (46.29lb)
Front / Back glass	1.6+1.6 mm (0.063+0.063 inch)
Frame	Aluminum, silver anodized
Junction Box	IP68 Rated, MC4-EVO2A connector
Output Cables	TÜV 1x4.0mm 1200mm or Customized Length
Fire Rating	UL: Type 1, IEC: Class C
Maximum static load	5400Pa (front side), 2400Pa (back side)

## SPECIFICATIONS

Module Type	SE-182*105-430M-96-BD		SE-182*105-440M-96-BD		SE-182*105-450M-96-BD	
	STC	NMOT	STC	NMOT	STC	NMOT
Maximum Power (Pmax / W)	430	323	440	331	450	338
Maximum Power Voltage (Vmp / V)	29.36	27.31	29.72	27.68	30.08	27.96
Maximum Power Current (Imp / A)	14.65	11.83	14.81	11.96	14.97	12.09
Open-circuit Voltage (Voc / V)	34.31	32.59	34.67	32.94	35.03	33.28
Short-circuit Current (Isc / A)	15.85	12.80	15.95	12.88	16.05	12.96
Module Efficiency STC (%)	21.5%		22.0%		22.5%	
Operating Temperature (°C)	-40°C~+85°C					
Maximum System Voltage	1500VDC (IEC)					
Maximum Series Fuse Rating	30 A					
Power Tolerance	0~+3%					
Temperature Coefficients of Pmax	-0.30%/°C					
Temperature Coefficients of Voc	-0.25%/°C					
Temperature Coefficients of Isc	+0.046%/°C					
Nominal Module Operating Temperature (NMOT)	41±2°C					

### Electrical Specifications (Integrated power)

Pmpp gain	Pmpp / Wp	Vmpp / V	Imp / A	Voc / V	Isc / A
5%	472	30.10	15.72	35.08	16.85
10%	495	30.10	16.47	35.08	17.66
15%	517	30.10	17.22	35.08	18.46
20%	540	30.10	17.96	35.08	19.26
25%	562	30.10	18.71	35.08	20.06

Electrical characteristics with different rear power gain(reference to 450W)

<b>STC:</b>	Irradiance 1000W/m <sup>2</sup>	Cell Temperature 25°C	AM=1.5
<b>NMOT:</b>	Irradiance 800W/m <sup>2</sup>	Cell Temperature 20°C	AM=1.5  Wind Speed 1m/s

Power measurement tolerance: ± 3%

Contact us!

Become the best solar company for the world