

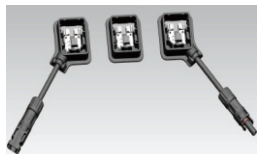
72-Half cell Module

POWER RANGE

430W~460W

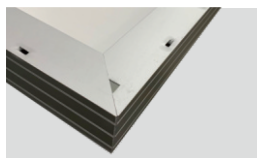
CELL SIZE

166*83mm



JUNCTION BOX

Waterproof protection grade: IP67/IP68
Safety Level: Class II
Maximum System Voltage: 1500V
outstanding waterproof level ·
Effectively resist harsh environments



Frame

Strong machanical load
resistance up to 5400Pa
Anodic oxidation layer resistant to
chemical corrosion available
in silver and black



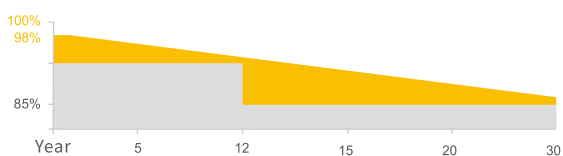
9BB

QUALIFICATIONS AND CERTIFICATES



· IEC61215 / · IEC61730

WARRANTY



12
YEARS

Guarantee on product material and workmanship

30
YEARS

Linear Power output warranty



Half-cut Technology

New circuit design, lower internal current and
lower internal resistance loss



Significantly avoiding heat spot

The unique circuit design to reduce the temperature
of heat spot significantly, so that to reduce the power loss
and then increase the output of modules.



Lower cost

Increasing power generation can reduce the
cost per kilowatt-hour



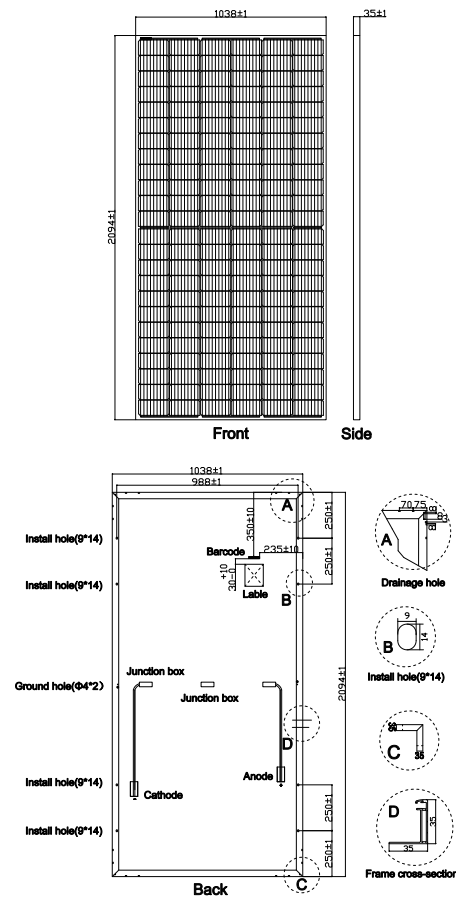
Excellent performance of PID resistance

The performance of PID resistance (Potential Induced
Degradation) passed the standard of TUV Nord.

72-Half cell Module

PV DRAWINGS

Unit:mm



ELECTRICAL DATA (STC)

Model Type	430-36V-MH	440-36V-MH	450-36V-MH	460-36V-MH
Peak Power(Pmax)	430.00	440.00	450.00	460.00
Maximum Power Voltage(Vmp)	40.70	41.10	41.50	41.90
Maximum Power Current(Imp)	10.57	10.71	10.85	10.99
Open Circuit Voltage(Voc)	48.50±3%	48.90±3%	49.30±3%	49.70±3%
Short Circuit Current(Isc)	11.31±3%	11.46±3%	11.60±3%	11.72±3%
Module Efficiency(%)	19.78	20.24	20.70	21.16

* STC: irradiance 1000 W/m², AM 1.5, and cell temperature of 25°C

ELECTRICAL DATA (NOCT)

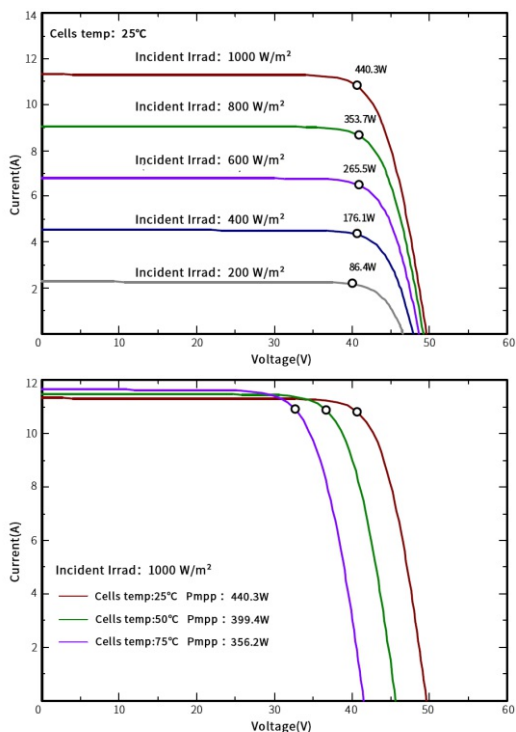
Model Type	430-36V-MH	440-36V-MH	450-36V-MH	460-36V-MH
Peak Power(Pmax)	321.10	328.60	336.10	343.50
Maximum Power Voltage(Vmp)	37.90	38.30	38.60	39.00
Maximum Power Current(Imp)	8.47	8.59	8.70	8.80
Open Circuit Voltage(Voc)	45.50±3%	45.80±3%	46.20±3%	46.60±3%
Short Circuit Current(Isc)	9.15±3%	9.27±3%	9.38±3%	9.48±3%

* NOCT: irradiance 800 W/m², AM 1.5, ambient temperature 20°C, wind speed 1 m/s

TEMPERATURE & MAXIMUM RATING

Maximum System Voltage (V)	1500 V
Maximum Series Fuse Rating (A)	20 A
Power Tolerance	0~+3 W
Pmax Temperature Coefficients (W/°C)	-0.350 %/°C
Voc Temperature Coefficients (V/°C)	-0.270 %/°C
Isc Temperature Coefficients (A/°C)	+0.048 %/°C
NOCT Nominal Operating Cell Remperature (°C)	45±2 °C
Operating and Storage Temperature (°C)	-40~+85 °C

IV CURVE (440W)



MECHANICAL CHARACTERISRTICS

Cell Type	166*83 Mono
No. of Cells	144 (12*12)
Dimensions	2094*1038*35mm
Weight	23.50kg
Front Glass	3.2mm high transmission, low iron, tempered glass
Frame	Anodized Aluminium Alloy
Junction box	IP67/IP68 3diodes
Output cables	4mm ² cable 35cm (Inlcuding MC4 connector)
MaxWind Load/Snow Load	2400Pa/5400Pa

PACKING WAY

20FT container	5 Packages/155pcs
40HQ container	22 Packages/726pcs