

## POWER RANGE:

420-440W\*Recommend for residential rooftop

**440W**  
Max Power Output

**22.5%**  
Max Panel Efficiency

**LEAD FREE**

Advanced Busbar-free Technology

**HJT**

182 Wafer



### Excellent Energy Efficiency

- No PID&LID
- Market leading weak light effect and temperature coefficient (-0.24%/°C)
- 182mm large size and Busbar-free technology provide higher efficiency (22.5%)



### High Customer Value

- Lower LCOE (Levelized Cost of Energy), reduced BOS (Balance of System) cost, expedited ROI period



### High Double-sided Rate 90%

- Additional power generation revenue >5%



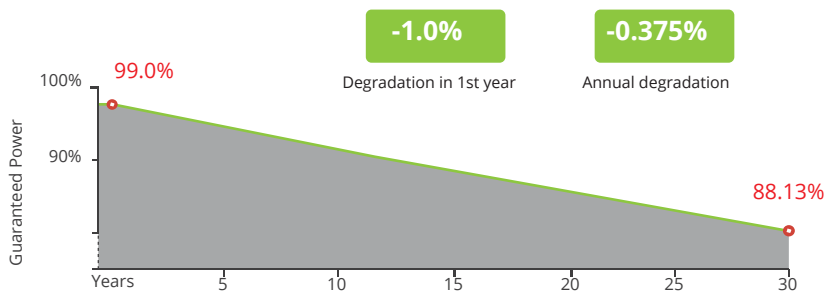
### The Sustainable Choice

- Fluorine-free and lead-free products;
- Thinner silicon wafer (100 μ m);
- Lower energy consumption (<400kg eq CO2/kWc)



### Highest Fire Rating

- Class A



**15**

15 years Product Warranty

**30**

30 years Power Warranty

### Certificates & Warranty

IEC61215 2016&IEC61730 2016



Electrical data(STC)

Max. Power (W)	420	425	430	435	440
Max. Power Voltage Vmp (V)	34.49	34.76	35.03	35.30	35.57
Max. Power Current Imp (A)	12.18	12.23	12.28	12.33	12.37
Open Circuit Voltage Voc (V)	40.56	40.84	41.12	41.40	41.68
Short Circuit Current Isc (A)	12.97	13.02	13.07	13.12	13.16
Module Efficiency (%)	21.4	21.7	21.9	22.2	22.5

\*STC (Standard Test Condition): Irradiance 1000W/m<sup>2</sup>, Cell Temperature 25°C, Air Mass 1.5  
 \*Measurement Tolerance (±3.0%)

Electrical data(NOCT)

Max. Power (W)	321	325	329	333	337
Max. Power Voltage Vmp (V)	33.00	33.27	33.54	33.81	34.11
Max. Power Current Imp (A)	9.73	9.77	9.81	9.85	9.88
Open Circuit Voltage Voc (V)	38.95	39.22	39.49	39.76	40.03
Short Circuit Current Isc (A)	10.46	10.50	10.54	10.58	10.62

\*NOCT: Irradiance at 800W/m<sup>2</sup>, Ambient Temperature 20°C, Wind Speed 1m/s

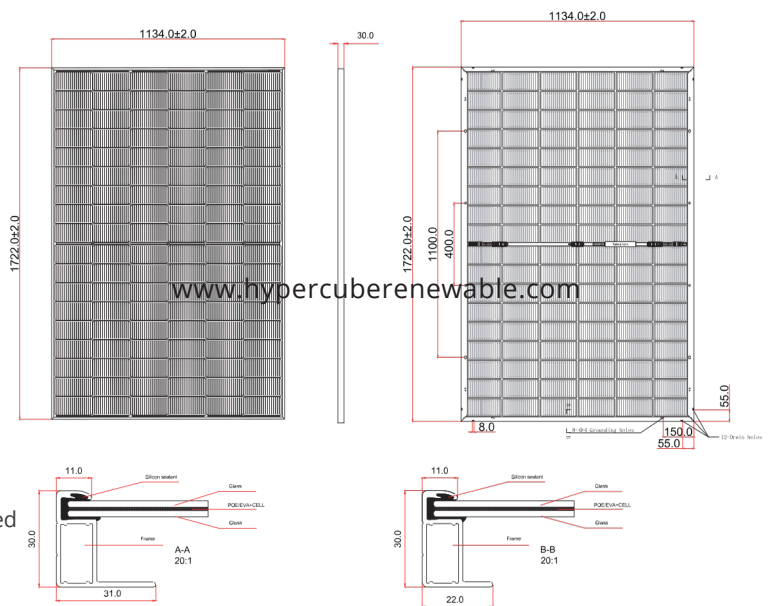
Temperature Ratings

Power Tolerance (W) Temperature	0~+5
Coefficients of γPmp (%/°C) Temperature	-0.24
Coefficients of βVoc (%/°C) Temperature	-0.22
Coefficients of αIsc (%/°C) Max. Over-	+0.047
Current (A) Bifacial Factor (%)	25
NOCT(Nominal Operating Cell Temperature)	≥85
Temperature	43±2°C

Mechanical Parameters

Cell Type (mm)	HJT 182.0BB Half cell
NO. of Cells and Connections	108(6×18)
Dimensions(L*W*H) (mm)	1722*1134*30
Double AR Coated Glass (mm)	1.6+1.6
Cable Length (mm)	300,Length can be customized
Weight (kg)	22
NO. of Diodes	3
Container 40'HQ (pcs)	36/936

Dimensions of PV Module(mm)



Working Condition

Maximum System Voltage (V)	1500V DC
Operating Temp (°C) Max.	-40 ~ +85
Wind Load (Pa) Max. Snow	2400
Load (Pa)	5400

Characteristic Curves(440W)

