

430-450 W

Topcon N-Type

 **182mm bifacial half cell**

 **1.722 x 1.134 mm**

 **24.2 / 21.2 kg**



HJT Technology

Combining gettering process and $\mu\text{-Si}$ technology to ensure higher cell efficiency and higher module power.



-026%/°C Pmax temperature coefficient

More stable power generation performance and even better in hot climate.



SMBB design with Half-Cut Technology

Shorter current transmission distance, less resistive loss and higher cell efficiency.



Suitable for utility project

Lower BOS cost, lower LCOE.



Up to 90% bifaciality

Natural symmetrical bifacial structure bringing more energy yield from the backside.



Sealing with PIB based sealant

Stronger water resistance, greater air impermeability to extend module lifespan.

Warranty | Garantía

25

Years | Años
Product
Producto

30

Years | Años
Linear power
Rendimiento lineal

1
TIER

Bloomberg
NEW ENERGY FINANCE

CERTIFIED
IEC
61730 Ed.1

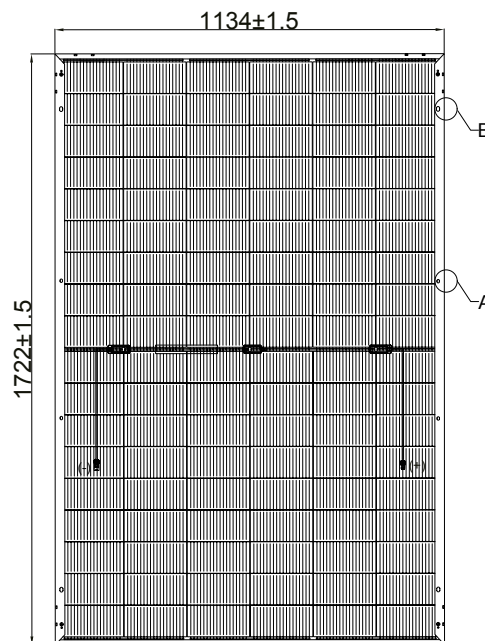
CERTIFIED
IEC
61215 Ed.2

 **Anti-PID**
System voltage durability
PPP 56042



MECHANICAL PARAMETERS

Cell Type	HJT Mono 182×91.75mm
Cell Connection	108 (6×18)
Module Dimensions	1722×1134×30 mm
Weight	24.2kg / 21.2kg
Junction Box	IP68
Output Cable	4mm ² , 1200mm in length, length can be customized / UV resistant
Connectors Type	MC4-Evo 2
Frame	Anodised aluminum alloy (Black)
Front Load	5400 Pa
Real Load	2400 Pa
Glass Thickness	Doble glass, 2.0mm



ELECTRICAL CHARACTERISTICS (STC*)

Maximum power - Pmax (W)	430	435	440	445	450
Open circuit current - Voc (V)	34.60	34.86	35.12	35.38	35.63
Short circuit current - Isc (A)	12.43	12.48	12.53	12.58	12.63
Voltage at maximum power - VMP (V)	41.37	41.64	41.91	42.18	42.44
Current at maximum power point - IMP (A)	12.95	13.00	13.05	13.10	13.15
Module efficiency (%)	22.02	22.28	22.53	22.79	23.04
Operating Module Temperature	-40 to +85°C				
Maximum System Voltage	DC1500V (IEC)				
Maximum Series Fuse	25A				
Max. power tolerance (W)	0~+5W				
Bifaciality (%)	90%±5%				

*STC: Irradiance 1000 W/m², cell temperature 25°C, AM=1.5. Test uncertainty for Pmax ±3%.

BSTC**

Maximum power - Pmax (W)	482	785	790	795	800
Open circuit current - Voc (V)	34.72	50.59	50.74	50.88	51.03
Short circuit current - Isc (A)	13.89	19.33	19.39	19.44	19.50
Voltage at maximum power - VMP (V)	41.51	42.54	42.68	42.83	42.97
Current at maximum power point - IMP (A)	14.52	18.46	18.51	18.57	18.62

**BSTC: Front side irradiation 1000W/m², back side reflection irradiation 135W/m², AM=1.5, ambient temperature 25°C

TEMPERATURE PARAMETERS

Nominal Operating Cell Temp. (NOCT)	44°C (±2°C)
Temperature Coefficient of Pmax	-0.24 %/°C
Temperature Coefficient of Voc	-0.24 %/°C
Temperature Coefficient of Isc	0.04 %/°C