



未来光能
FUTURE ENERGY

FUTURE210R Series

120 Half-piece Bifacial Dual Glass HJT Module

565~585W



OBB Technology

Less light obstruction and stronger current collection ability



Up to 90% Bifaciality

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



Better temperature coefficient

-0.24%/°C, More stable power generation



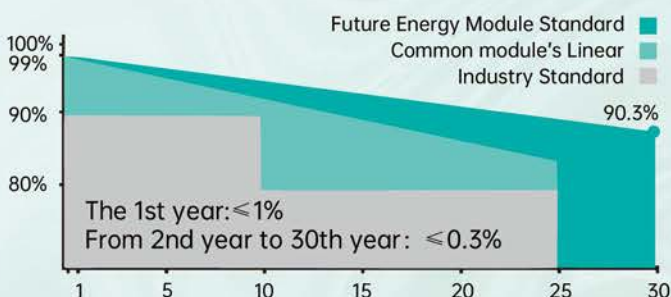
High Reliability

Excellent anti-LID & anti-PID performance, Sealing with PIB based sealant, Stronger water resistance, greater air impermeability to extent module lifespan.



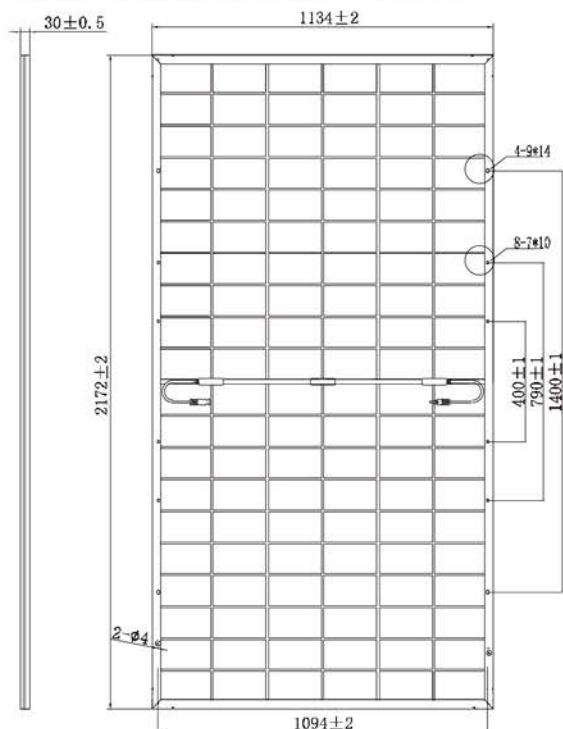
Suitable for Utility Solar projects

Lower BOS cost, lower LCOE



15^y Product Warranty

30^y Linear Power Warranty

Engineering Drawings Unit: mm

ELECTRICAL DATA (STC*)

Rated Power in Watts-Pmax(Wp)	565	570	575	580	585
Maximum Power Voltage-Vmpp(V)	38.59	38.70	38.81	38.91	39.01
Maximum Power Current-Imp(A)	14.64	14.73	14.82	14.91	15.00
Open Circuit Voltage-Voc(V)	46.31	46.44	46.56	46.68	46.8
Short Circuit Current-Isc(A)	15.37	15.47	15.56	15.66	15.75
Module Efficiency (%)	22.93	23.14	23.34	23.55	23.75

*STC: Irradiance 1000 W/m², cell temperature 25°C, AM=1.5. Tolerance of Pmax is within +/- 3%.

Electrical characteristics with 10% rear side power gain

Total Equivalent power -Pmax(Wp)	622	627	633	638	644
Maximum Power Voltage-Vmpp(V)	38.59	38.70	38.81	38.91	39.01
Maximum Power Current-Imp(A)	16.10	16.20	16.30	16.40	16.50
Open Circuit Voltage-Voc(V)	46.31	46.44	46.56	46.68	46.80
Short Circuit Current-Isc(A)	16.91	17.02	17.12	17.23	17.33

Mechanical Characteristics

Solar cells	n-type HJT
Cell configuration	120cells (6×20)
Module dimensions	2172×1134×30mm
Weight	30.6kg
Superstrate	2.0mm,High Transmission,AR Coated Heat Strengthened Glass
Substrate	2.0mm,Heat Strengthened Glass
Frame	Anodized Aluminium Alloy
J-Box	IP68
Cables	4.0mm ² ,300mm, or customized length
Connector	MC4-EVO 2A
Packing Configuration	
36PCS per pallet , 792PCS per 40ft(HQ)	

Application Environment&Temperature Characteristics

Operating Module Temperature	-40~+85°C
Maximum System Voltage	1500V DC (IEC)
Maximum Series Fuse	30A
Power Tolerance	0~+5W
Bifaciality	85%±5%
Safety Class	Class II
Nominal Operating Cell Temp.(NOCT)	45±2°C
Temperature Coefficient of Pmax	-0.24%/°C
Temperature Coefficient of Voc	-0.24%/°C
Temperature Coefficient of Isc	0.04%/°C

