

FUTURE210 Series 120 Half-piece Bifacial Dual Glass HJT Module

640~660W



OBB Technology

Less light obstruction and stronger current collection ability



Up to 90% Bifaciality

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



Better temperature coefficient

-0.24%/°C, More stable power generation



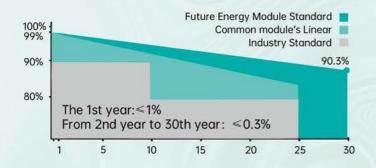
High Reliability

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



Suitable for Utility Solar projects

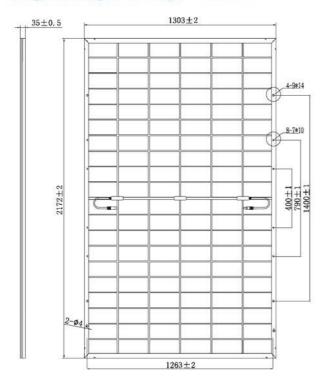
Lower BOS cost, lower LCOE



- Product Warranty
- Linear **Power Warranty**



Engineering Drawings



Mechanical Characteristics

Solar cells	n-type HJT	
Cell configuration	120cells (6×20)	
Module dimensions	2172×1303×35mm	
Weight	35.3kg	
Superstrate	2.0mm,High Transmission,AR Coated Heat Strengthened Glass	
Substrate	2.0mm,Heat Strengthened Glass	
Frame	Anodized Aluminium Alloy	
J-Box	IP68	
Cables	4.0mm²,300mm, or customized length	
Connector	MC4-EVO 2A	
Packing Configurati	on	
Packing Configurati 31PCS per pallet, 55		

ELECTRICAL DATA (STC*)

Rated Power in Watts-Pmax(Wp)	640	645	650	655	660
Maximum Power Voltage-Vmpp(V)	38.35	38.51	38.67	38.83	38.99
Maximum Power Current-Impp(A)	16.69	16.75	16.83	16.89	16.95
Open Circuit Voltage-Voc(V)	45.66	45.84	46.02	46.18	46.36
Short Circuit Current-Isc(A)	17.49	17.55	17.61	17.77	17.83
Module Efficiency (%)	22.62	22.80	22.98	23.16	23.34

*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)	704	710	715	721	726
Maximum Power Voltage-Vmpp(V)	38.35	38.51	38.67	38.83	38.99
Maximum Power Current-Impp(A)	18.36	18.43	18.51	18.58	18.65
Open Circuit Voltage-Voc(V)	45.66	45.84	46.02	46.18	46.36
Short Circuit Current-Isc(A)	19.24	19.31	19.37	19.55	19.61

Application Environment&Temperature Characteristics

Operating Module Temperature	-40~+85°C			
Maximum System Voltage	1500V DC (IEC)			
Maximum Series Fuse	35A			
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			





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