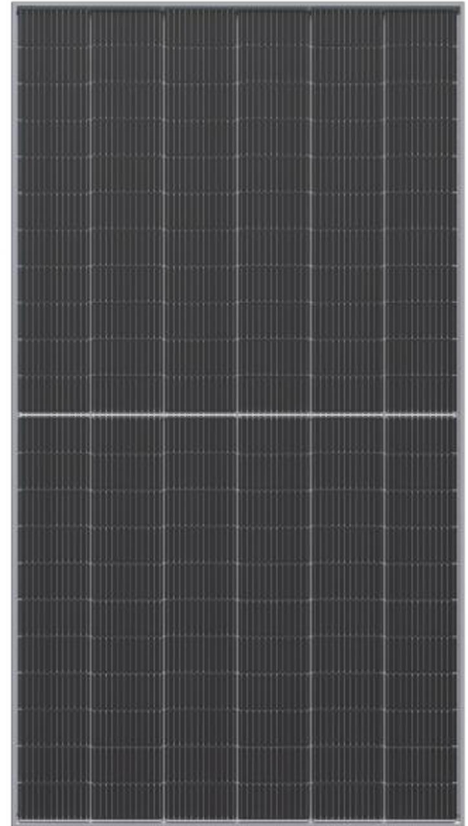


HALF-CELL BIFACIAL MODULE

650-670W
POWER OUTPUT

21.6%
MAX EFFICIENCY



Efficient conversion rate
Up to 21.6% component conversion efficiency



Excellent low light performance
Able to output more electricity under low light conditions such as cloudy days, morning and evening



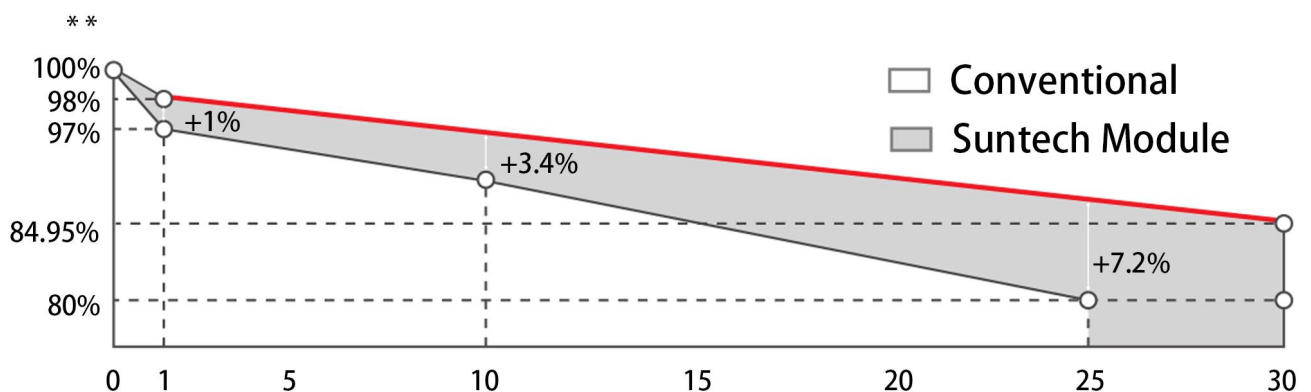
Reduce hot spot effect
Reduce component hot spot effect and minimize component attenuation



Superior load capacity
Capable of withstanding negative pressure up to 2400 Pa and positive pressure up to 5400 Pa

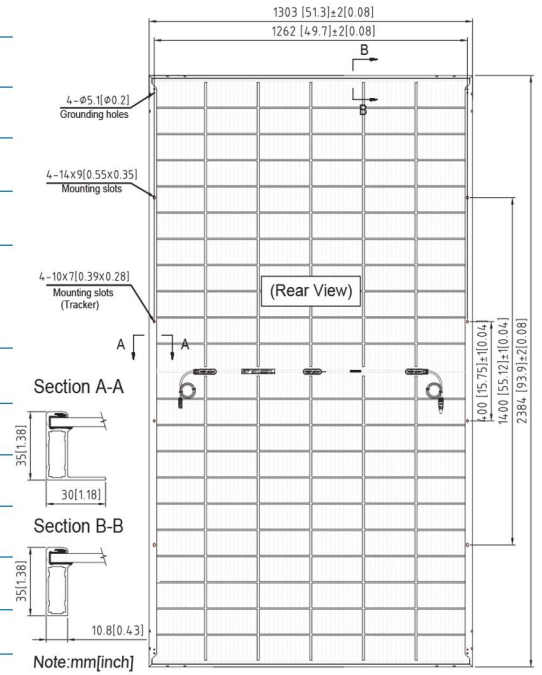
First year power degradation **2%**

Annual degradation **0.45%**



Mechanical Characteristic

Solar Cell	Monocrystalline silicon 210 mm
No. of cells	132 (6 × 22)
Dimensions	2384 × 1303 × 35 mm
Weight	37.5 kgs (82.7 lbs.)
Front/Back Glass	2.0+2.0 mm semi-tempered glass
Output Cables	4.0 mm ² , (-) 350 mm and (+) 160 mm in length or customized length
Operating Module Temperature	-40 ° C to +85 ° C
Maximum System Voltage	1500 V DC (IEC)
Maximum Series Fuse Rating	30 A
Power Tolerance	0/+5 W
Refer. Bifaciality Factor	(70 ± 5)%
Frame	Anodized aluminum alloy frame



Electrical Characteristics

Module Type	STP670S-D66/Pmh+		STP665S-D66/Pmh+		STP660S-D66/Pmh+		STP655S-D66/Pmh+		STP650S-D66/Pmh+	
	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum Power (Pmax/W)	650	505.5	665	501.7	660	497.9	655	494.1	650	490.3
Optimum Operating Voltage (Vmp/V)	38.45	35.8	38.25	35.7	38.05	35.6	37.85	35.4	37.65	35.2
Optimum Operating Current (Imp/A)	17.43	14.10	17.39	14.07	17.35	13.99	17.31	13.96	17.27	13.92
Open Circuit Voltage (Voc/V)	46.45	43.7	46.25	43.5	46.05	43.4	45.85	43.2	45.65	43.0
Short Circuit Current (Isc/A)	18.43	14.87	18.39	14.84	18.35	14.76	18.31	14.73	18.27	14.70
Module Efficiency (%)	21.6%		21.4%		21.2%		21.1%		20.9%	

Different Rearside Power Gain

Rearside Power Gain	5%	15%	25%
Maximum Power at STC (Pmax)	693.0	759.0	825.0
Optimum Operating Voltage (Vmp/V)	38.1	38.1	38.2
Optimum Operating Current (Imp/A)	18.22	19.95	21.69
Open Circuit Voltage (Voc/V)	46.1	46.1	46.2
Short Circuit Current (Isc/A)	19.27	21.10	22.94
Module Efficiency (%)	22.3%	24.4%	26.6%

