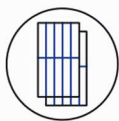




(182mm mono TOPCon half-cell, high-efficiency bifacial module )

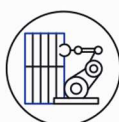
# 560-590W 0-5W Positive Tolerance



**MBB&SMBB Half-cut Cell Technology**  
New circuit design, lower internal current, and lower Rs loss.



**High Power Density**  
A new generation of monocrystalline products with reduced resistive losses for greater power output.



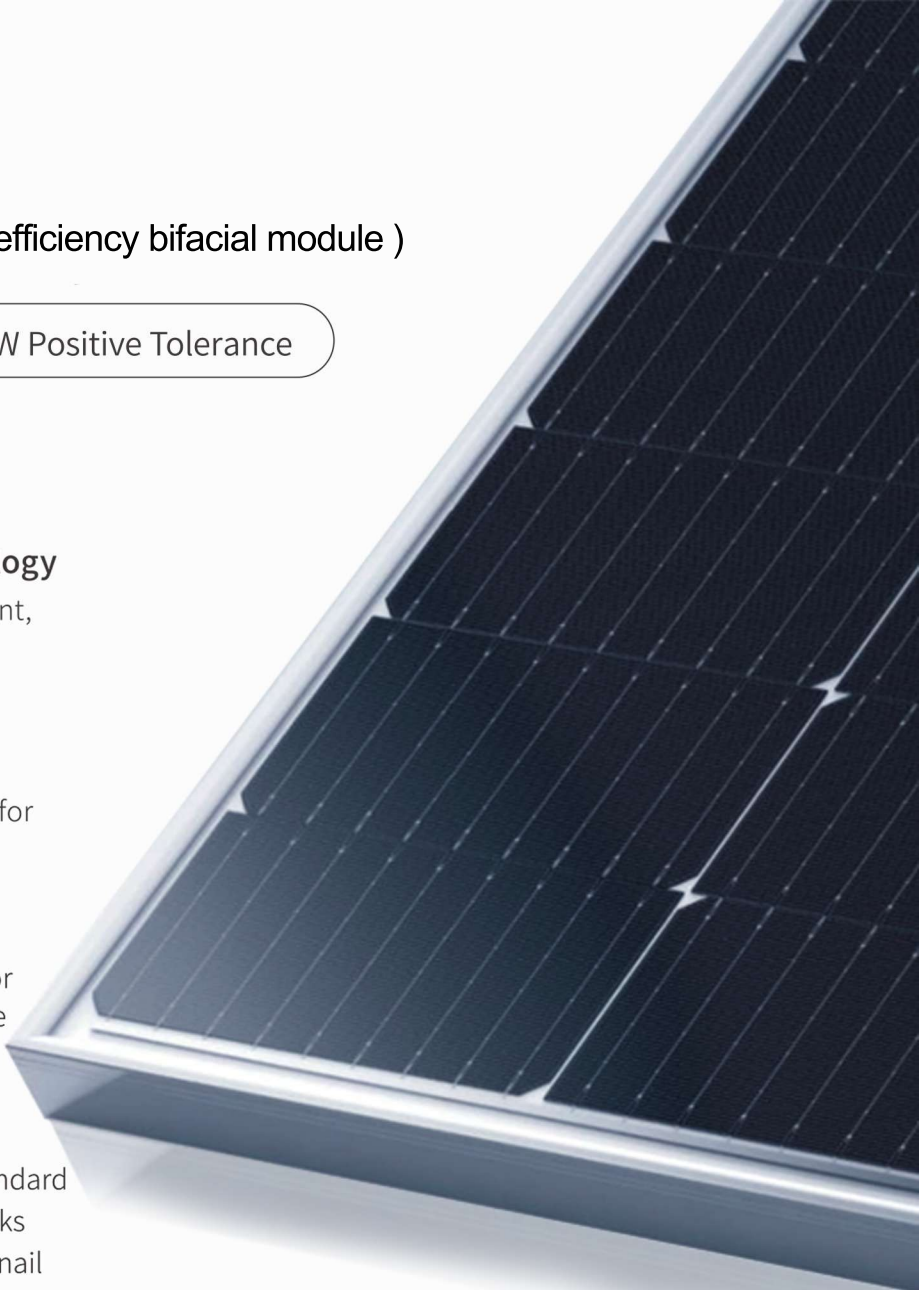
**Mechanical Properties**  
An aluminum frame in special design for better mechanical properties and more efficient installation.



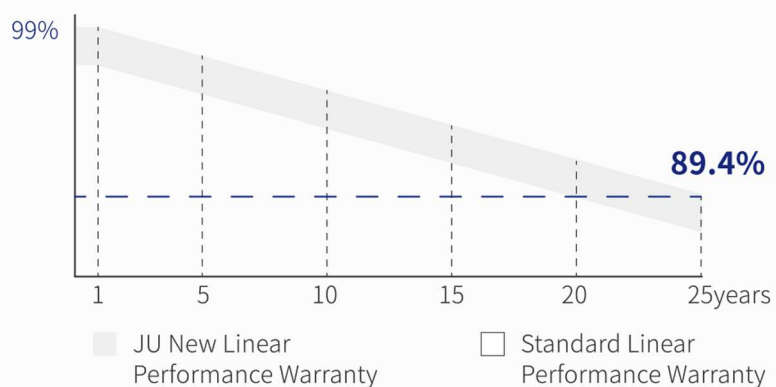
**Excellent Weather Resistance**  
The solar modules can meet the IEC standard requirements with strong resistant to risks such as salt spray, ammonia gas, dust, snail marks and electric potential induced attenuation.



**4 Times 100% EL Detection**  
Guarantee no micro cracks



**PRODUCT QUALITY SYSTEM & CERTIFICATION**



- 12years** Material & process Warranty
- 25years** Linear Performance Warranty
- 1%** Linear Power Degradation in the First Year
- 0.4%** Linear Power Degradation Every Year

**ELECTRICAL PROPERTIES**

**SM-182T-72HBG 144PCS**

**STC** : irradiance, 1000W/m<sup>2</sup>; cell temperature, 25°C; spectral range, AM1.5  
**NOCT**: irradiance, 800 W/m<sup>2</sup>; ambient temperature, 20 °C; spectral range, AM1.5; wind speed, 1m/s

	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Max power - P <sub>mp</sub> (W)	560	421	565	425	570	429	575	432	580	436	585	440	590	444
Open-circuit voltage - V <sub>oc</sub> (V)	50.67	48.13	50.87	48.32	51.07	48.51	51.27	48.70	51.47	48.89	51.67	49.08	51.87	49.27
Short-circuit current - I <sub>sc</sub> (A)	14.13	11.41	14.19	11.46	14.25	11.50	14.31	11.55	14.37	11.60	14.43	11.65	14.49	11.70
Max operating voltage - V <sub>mp</sub> (V)	41.95	39.39	42.14	39.52	42.29	39.65	42.44	39.78	42.59	39.87	42.74	40.04	42.89	40.21
Max operating current - I <sub>mp</sub> (A)	13.35	10.69	13.41	10.75	13.48	10.81	13.55	10.87	13.62	10.94	13.69	10.98	13.76	11.04
Module conversion efficiency - η <sub>m</sub>	21.68%		21.87%		22.07%		22.26%		22.45%		22.65%		22.84%	

**ELECTRICAL PROPERTIES VERSUS POWER GAINS FROM THE REAR (TAKING A IRRADIANCE OF 570W)**

	5%	15%	25%
Power gain	5%	15%	25%
Max power - P <sub>mp</sub> (W)	598.5	655.5	713
Open-circuit voltage - V <sub>oc</sub> (V)	51.10	51.10	51.10
Short-circuit current - I <sub>sc</sub> (A)	14.96	16.39	17.81
Max operating voltage - V <sub>mp</sub> (V)	42.30	42.30	42.30
Max operating current - I <sub>mp</sub> (A)	14.15	15.50	16.85
Bifaciality		80±5%	

**ABSOLUTE RATING**

Power tolerance (W)	(0, +5)
Mechanical load	Front5400Pa/Back2400Pa
Max system voltage (V)	1500
Max series fuse rating (A)	25
Operating temperature	-40~+85°C

**MECHANICAL PROPERTIES**

Module dimensions(L*W*H)	2278 x 1134 x 30mm
Weight	31.5kg
Cell quantity	144PCS
Cell model	N-type TOPCon Monocrystalline182 x 91mm
Glass	2.0mm AR, High Transmission, Semi-tempered Glass
Frame	Anodized aluminium alloy
Junction box	IP68 Rated
Output line	4.0mm <sup>2</sup> , wire length 300mm
Connector	MC4 Compatible

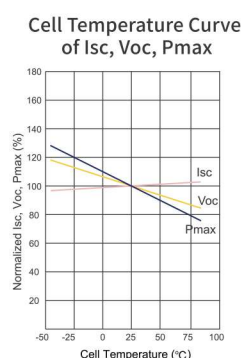
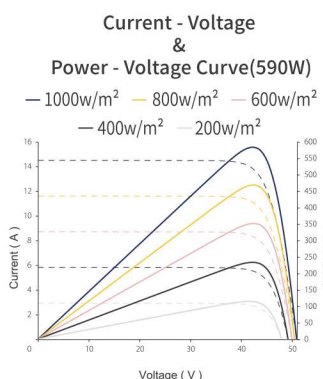
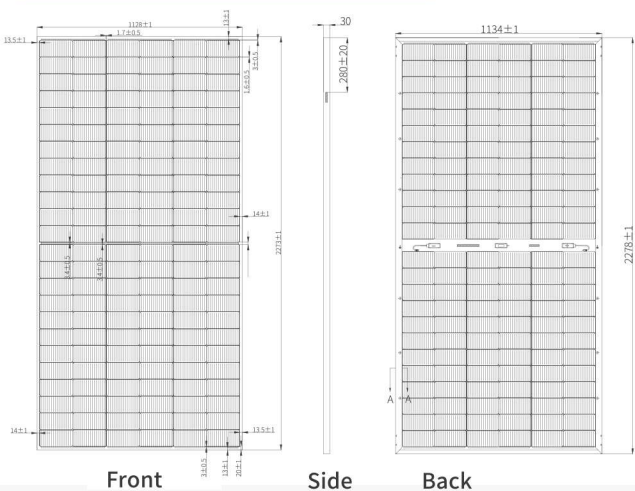
**TEMPERATURE CHARACTERISTIC**

Temperature coefficient (P <sub>max</sub> )	-0.30% / °C
Temperature coefficient (V <sub>oc</sub> )	-0.25% / °C
Temperature coefficient (I <sub>sc</sub> )	+0.046% / °C
NMOT	43±2°C

**PACKAGING**

Container	40HQ
PCS / Pallet	36
PCS / Container	720

**PRODUCT ASSEMBLY DRAWING(mm)**



20GW OEM/ODM Solar Customization  
WWW.SOLAR-FOREST.COM +86 0538 5076188



Taishan ChuangGu Industrial Park,  
No. 3168 Taishan Street, Taian