

(210mm mono PERC half-cell, high-efficiency bifacial module)

## 580-605W 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.



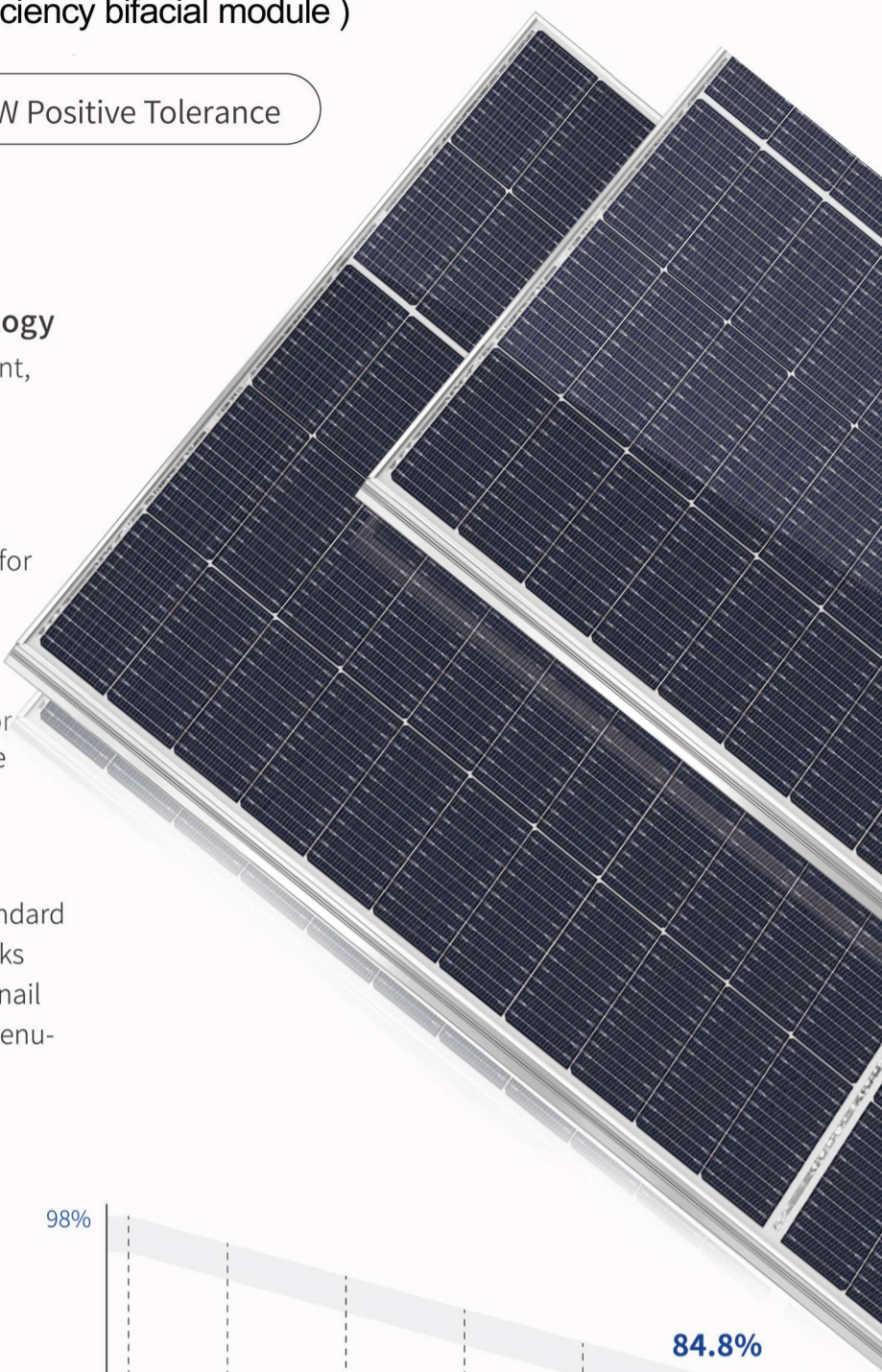
**Mechanical Properties**  
An aluminum frame in special design for better mechanical properties and more efficient installation.



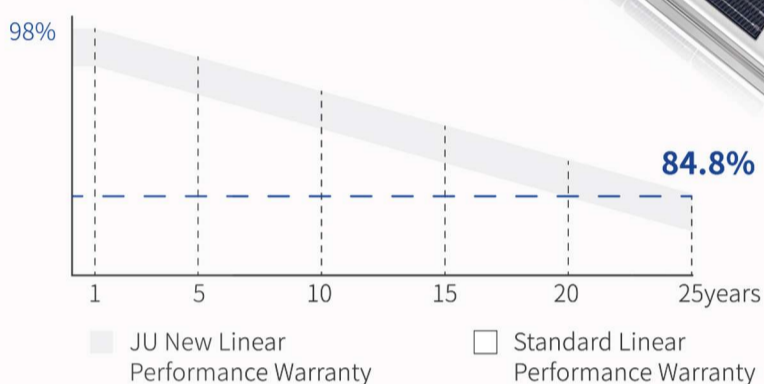
**Excellent Weather Resistance**  
The solar modules can meet the IEC standard requirements with strong resistant to risks such as salt spray, ammonia gas, dust, snail marks and electric potential induced attenuation.



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



### PRODUCT QUALITY SYSTEM & CERTIFICATION



Legend:   
■ JU New Linear Performance Warranty   
□ Standard Linear Performance Warranty

**12years** Material & process Warranty

**25years** Linear Performance Warranty

**0.55%** Linear Power Degradation

### ELECTRICAL PROPERTIES

### SM-210M-60HBG 120 PCS

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
Maximum power - P <sub>mp</sub> (W)	580	439	585	443	590	447	595	451	600	454	605	458
Open-circuit voltage - V <sub>oc</sub> (V)	40.92	38.51	41.13	38.73	41.31	38.92	41.54	39.12	41.72	39.32	41.72	39.32
Short-circuit current - I <sub>sc</sub> (A)	18.21	14.68	18.26	14.72	18.31	14.76	18.36	14.80	18.42	14.84	18.57	14.96
Maximum operating voltage - V <sub>mp</sub> (V)	33.81	31.53	34.04	31.72	34.21	31.92	34.41	32.06	34.63	32.21	34.61	32.19
Maximum operating current - I <sub>mp</sub> (A)	17.16	13.93	17.19	13.97	17.25	14.01	17.31	14.07	17.34	14.11	17.49	14.23
Module conversion efficiency - η <sub>m</sub>	20.49%		20.67%		20.85%		21.02%		21.20%		21.38%	

### ELECTRICAL PROPERTIES VERSUS POWER GAINS FROM THE REAR (TAKING A IRRADIANCE OF 10%)

Maximum power - P <sub>mp</sub> (W)	621	626	631	637	642	647
Open-circuit voltage - V <sub>oc</sub> (V)	40.92	41.13	41.31	41.54	41.72	41.73
Short-circuit current - I <sub>sc</sub> (A)	19.55	19.58	19.63	19.71	19.74	19.87
Maximum operating voltage - V <sub>mp</sub> (V)	33.81	34.04	34.21	34.41	34.63	34.61
Maximum operating current - I <sub>mp</sub> (A)	18.37	18.40	18.45	18.52	18.55	18.71
Irradiance ratio (Rear / Front)	10%					
Bifaciality	70±5%					

### ABSOLUTE RATING

Power tolerance (W)	(0, +5)
Mechanical load	Front5400Pa/Back2400Pa
Maximum system voltage (V)	1500
Maximum series fuse rating (A)	30
Operating temperature	-40~+85°C

### MECHANICAL PROPERTIES

Module dimensions(L*W*H)	2172 x 1303 x 35mm
Weight	35.3kg
Cell quantity	120PCS
Cell model	PERC Monocrystalline210 x 105mm
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> )	-0.34% / °C
Temperature coefficient (V <sub>oc</sub> )	-0.25% / °C
Temperature coefficient (I <sub>sc</sub> )	+0.04% / °C
NMOT	43±2°C

### PACKAGING

Container	40HQ
PCS / Pallet	31
PCS / Container	558

### PRODUCT ASSEMBLY DRAWING(mm)

