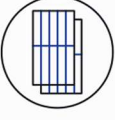


(182mm mono PERC half-cell, high-efficiency bifacial module )

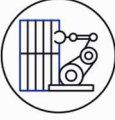
# 400-415W 0-5W Positive Tolerance



**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.



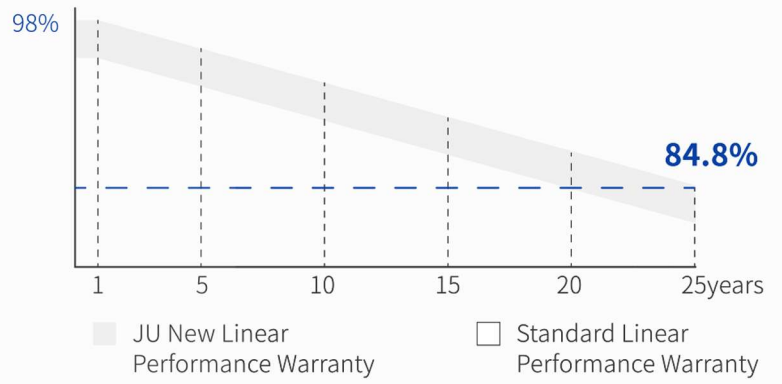
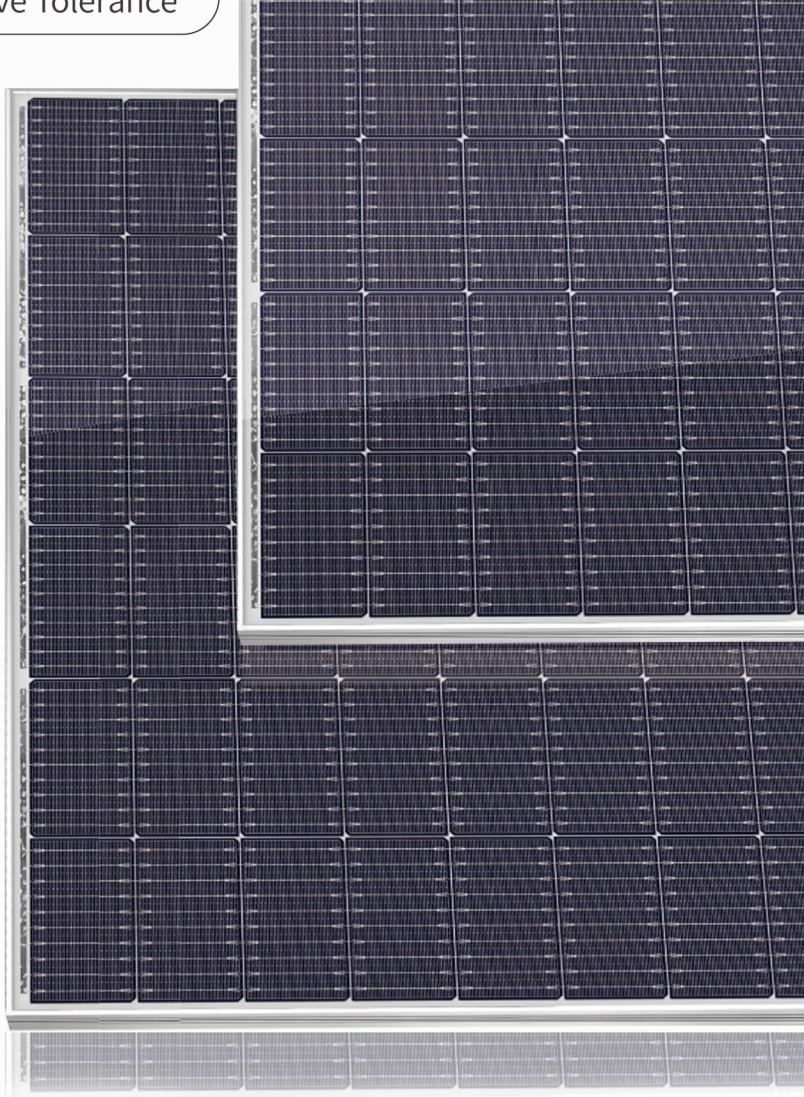
**Mechanical Properties**  
An aluminum frame in special design for better mechanical properties and more efficient installation.



**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

**0.55%** Linear Power Degradation

## ELECTRICAL PROPERTIES

**SM-182M-54HBG 108PCS**

**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
Maximum power - P <sub>mp</sub> (W)	400	298	405	302	410	305	415	309
Open-circuit voltage - V <sub>oc</sub> (V)	37.18	34.95	37.33	35.09	37.68	35.42	37.83	35.56
Short-circuit current - I <sub>sc</sub> (A)	13.39	10.85	13.44	10.89	13.59	11.01	13.64	11.05
Maximum operating voltage - V <sub>mp</sub> (V)	31.42	29.22	31.55	29.35	31.84	29.61	32.13	29.88
Maximum operating current - I <sub>mp</sub> (A)	12.74	10.21	12.84	10.29	12.88	10.31	12.92	10.34
Module conversion efficiency - η <sub>m</sub>	20.48%		20.74%		20.99%		21.25%	

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

Maximum power - P <sub>mp</sub> (W)	428	433	439	444
Open-circuit voltage - V <sub>oc</sub> (V)	37.18	37.33	37.68	37.83
Short-circuit current - I <sub>sc</sub> (A)	14.33	14.38	14.54	14.59
Maximum operating voltage - V <sub>mp</sub> (V)	31.42	31.55	31.84	32.13
Maximum operating current - I <sub>mp</sub> (A)	13.63	13.74	13.78	13.82
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)	25
Operating temperature	-40~+85°C

## MECHANICAL PROPERTIES

Module dimensions(L*W*H)	1722 x 1134 x 30mm
Weight	24.9kg
Cell quantity	108PCS
Cell model	PERC 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> )	-0.35% / °C
Temperature coefficient (V <sub>oc</sub> )	-0.27% / °C
Temperature coefficient (I <sub>sc</sub> )	+0.05% / °C
NMOT	45±2°C

## PACKAGING

Container	40HQ
PCS / Pallet	36
PCS / Container	936

## PRODUCT ASSEMBLY DRAWING(mm)

