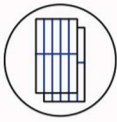




(182mm mono PERC half-cell, high-efficiency monocrystalline module)

585-605W 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.



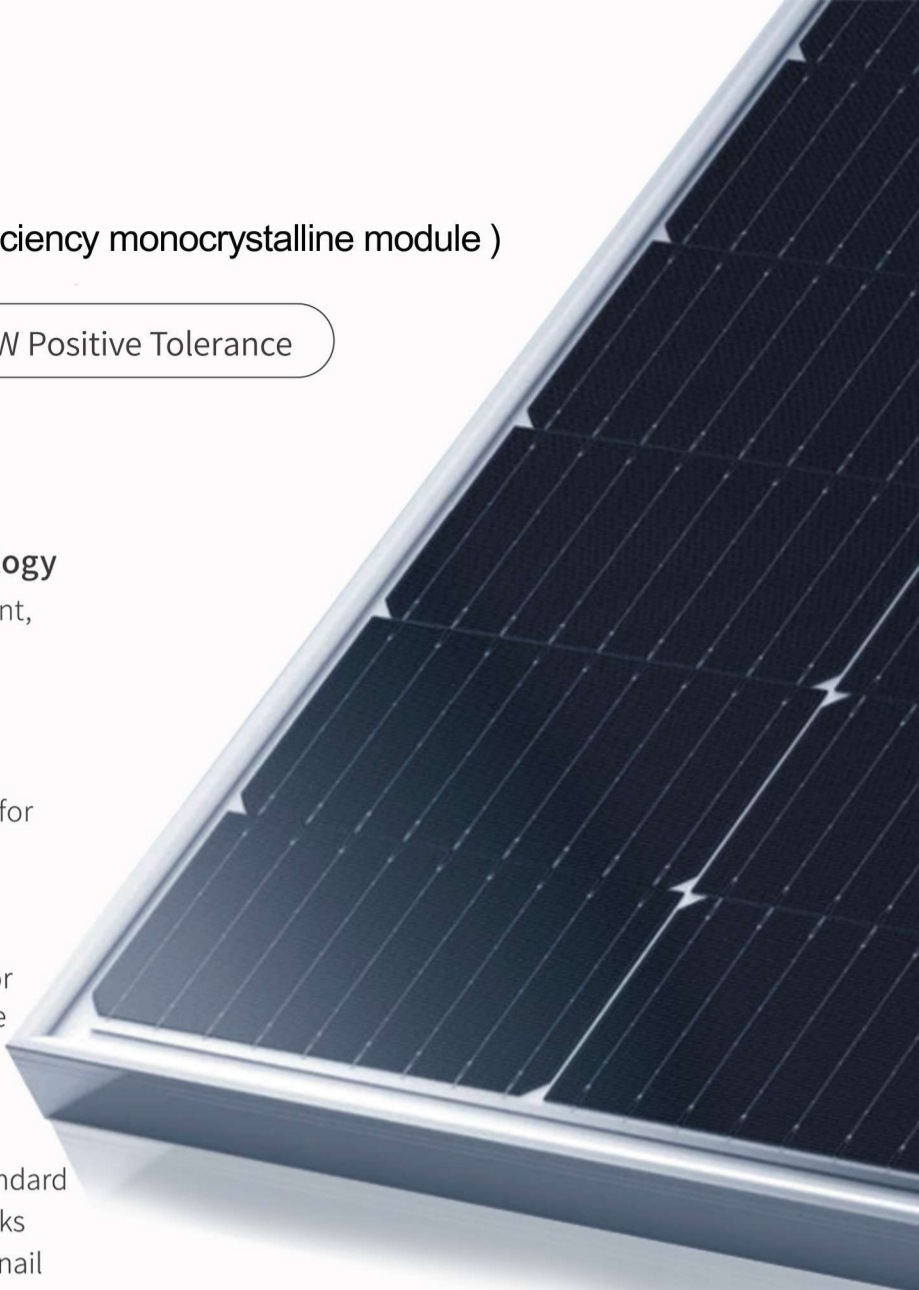
Mechanical Properties
An aluminum frame in special design for better mechanical properties and more efficient installation.



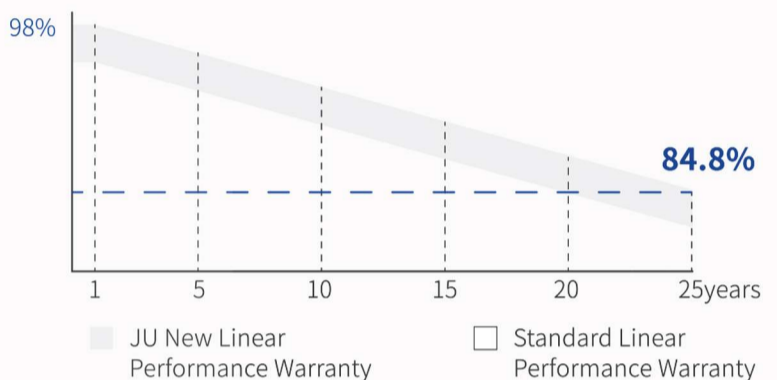
Excellent Weather Resistance
The solar modules can meet the IEC standard requirements with strong resistant to risks such as salt spray, ammonia gas, dust, snail marks and electric potential induced attenuation.



4 Times 100% EL Detection
Guarantee no micro cracks



PRODUCT QUALITY SYSTEM & CERTIFICATION



12years Material & process Warranty

25years Linear Performance Warranty

0.55% Linear Power Degradation

ELECTRICAL PROPERTIES

SM-182M-78H 156PCS

STC : irradiance, 1000W/m²; cell temperature, 25°C; spectral range, AM1.5

NOCT: irradiance, 800 W/m²; ambient temperature, 20 °C; spectral range, AM1.5; wind speed, 1m/s

	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum power - P _{mp} (W)	585	436.59	590	440.37	595	444.14	600	447.83	605	451.66
Open-circuit voltage - V _{oc} (V)	54.35	50.83	54.60	51.06	54.81	51.26	55.02	51.45	55.23	51.65
Short-circuit current - I _{sc} (A)	13.71	11.07	13.76	11.11	13.82	11.16	13.88	11.21	13.94	11.25
Maximum operating voltage - V _{mp} (V)	45.57	42.47	45.74	42.63	45.95	42.83	46.16	43.02	46.33	43.18
Maximum operating current - I _{mp} (A)	12.84	10.28	12.90	10.33	12.95	10.37	13.00	10.41	13.06	10.46
Module conversion efficiency - η _m	20.93%		21.11%		21.29%		21.46%		21.64%	
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									

STRUCTURAL CHARACTERISTICS

Module dimensions(L*W*H)	2465 x 1134 x 35mm
Weight	31.5kg
Cell quantity	156PCS
Cell model	PERC Monocrystalline182 x 91mm
Glass	3.2mm AR, High Transmission, tempered glass
Frame	Anodized aluminium alloy
Junction box	IP68 Rated
Output line	4.0mm ² , wire length 300mm
Connector	MC4 Compatible

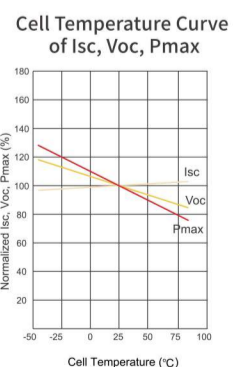
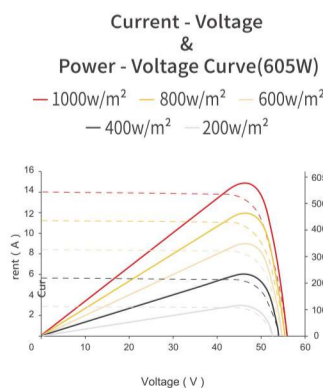
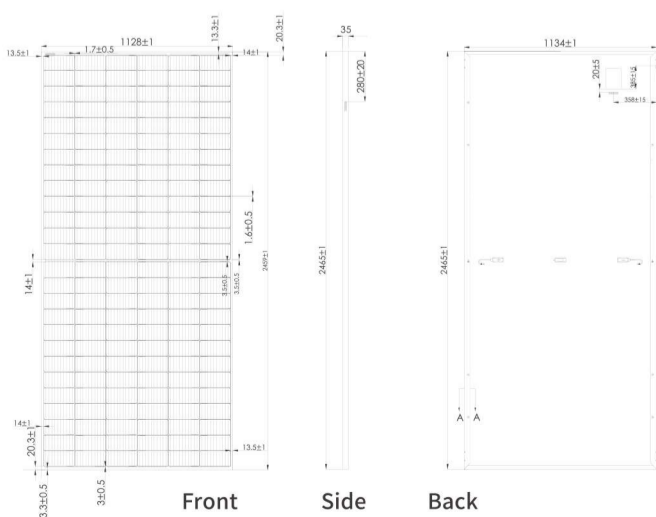
TEMPERATURE CHARACTERISTIC

Temperature coefficient (P _{max})	-0.35% / °C
Temperature coefficient (V _{oc})	-0.27% / °C
Temperature coefficient (I _{sc})	+0.048% / °C
NMOT	45±2°C

PACKAGING

Container	40HQ
PCS / Pallet	31
PCS / Container	496

PRODUCT ASSEMBLY DRAWING(mm)



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



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