

535-555W 0-5W Positive Tolerance



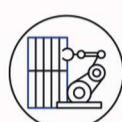
MBB&SMBB Half-cut Cell Technology

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.



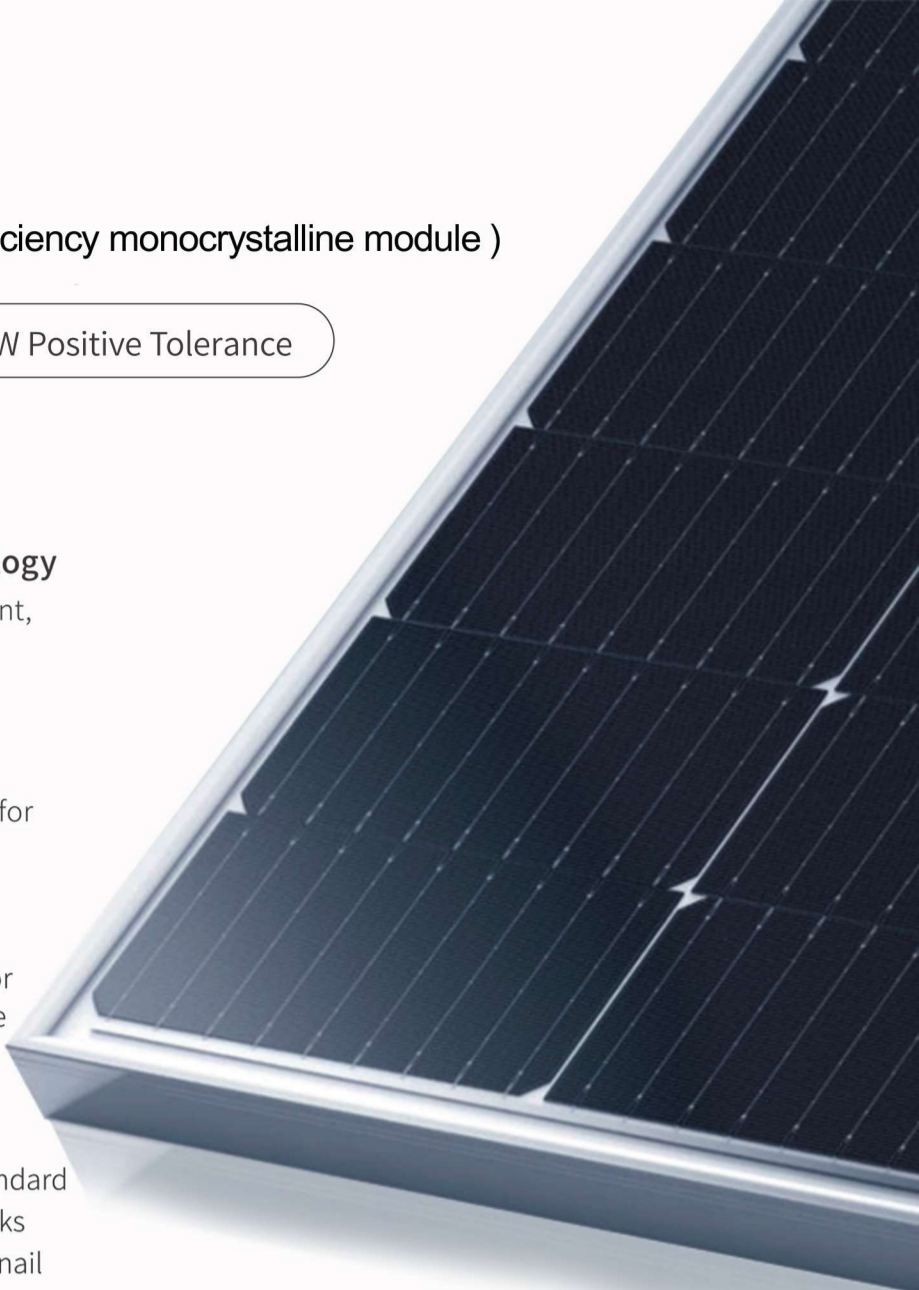
Excellent Weather Resistance

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.

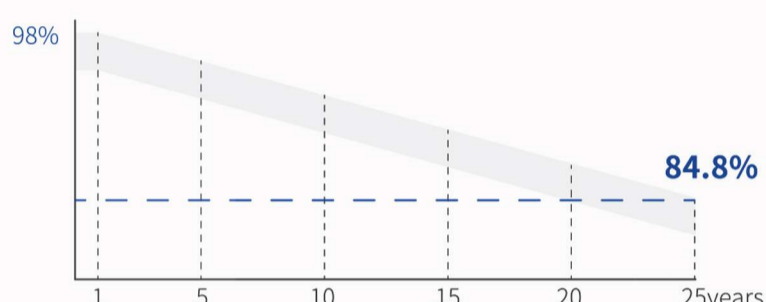


4 Times 100% EL Detection

Guarantee no micro cracks



PRODUCT QUALITY SYSTEM & CERTIFICATION



■ 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-182M-72H 144PCS

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)	535	398	540	402	545	406	550	410	555	414
Open-circuit voltage - V _{oc} (V)	49.34	46.57	49.42	46.65	49.51	46.74	49.60	46.82	49.69	46.90
Short-circuit current - I _{sc} (A)	13.79	11.14	13.85	11.19	13.94	11.27	14.04	11.35	14.14	11.43
Maximum operating voltage - V _{mp} (V)	40.66	37.92	40.71	38.11	40.76	38.19	40.83	38.25	40.88	38.32
Maximum operating current - I _{mp} (A)	13.16	10.51	13.27	10.56	13.38	10.64	13.48	10.73	13.58	10.82
Module conversion efficiency - η _m	20.70%		20.89%		21.09%		21.28%		21.48%	
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)	2279 x 1134 x 35mm
Weight	28.9kg
Cell quantity	144PCS
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	620

PRODUCT ASSEMBLY DRAWING(mm)

