

460-480W 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.

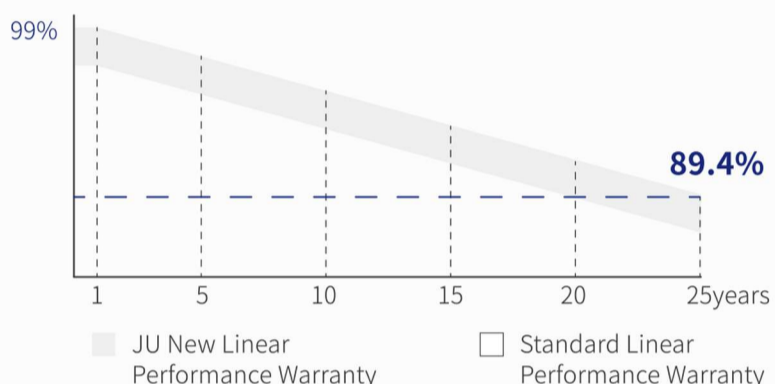


4 Times 100% EL Detection

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-60H 120PCS

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)	460	346	465	350	470	353	475	357	480	361
Open-circuit voltage - V _{oc} (V)	42.05	39.94	42.22	40.10	42.38	40.25	42.54	40.41	42.71	40.57
Short-circuit current - I _{sc} (A)	13.99	11.29	14.07	11.36	14.15	11.42	14.23	11.49	14.31	11.55
Maximum operating voltage - V _{mp} (V)	34.72	33.60	34.89	32.77	35.05	32.94	35.21	33.10	35.38	33.27
Maximum operating current - I _{mp} (A)	13.25	10.61	13.33	10.67	13.41	10.73	13.49	10.79	13.57	10.85
Module conversion efficiency - η _m	21.26%		21.49%		21.72%		21.95%		22.18%	
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)	1908 x 1134 x 30mm
Weight	24.3kg
Cell quantity	120PCS
Cell model	TOPCon 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})	-0.30% / °C
Temperature coefficient (V _{oc})	-0.25% / °C
Temperature coefficient (I _{sc})	+0.046% / °C
NMOT	43±2°C

PACKAGING

Container	40HQ
PCS / Pallet	36
PCS / Container	864

PRODUCT ASSEMBLY DRAWING(mm)

