

「 182mm mono TOPCon half-cell, high-efficiency bifacial module 」

510-525W 0-5W Positive Tolerance



Full black Aesthetic Design

Paired with full-black module frame and backsheet, ensuring high stability and consistency of black aesthetic module in color tone, brightness, and uniformity.



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.



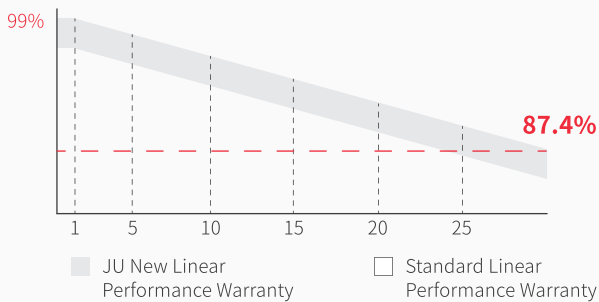
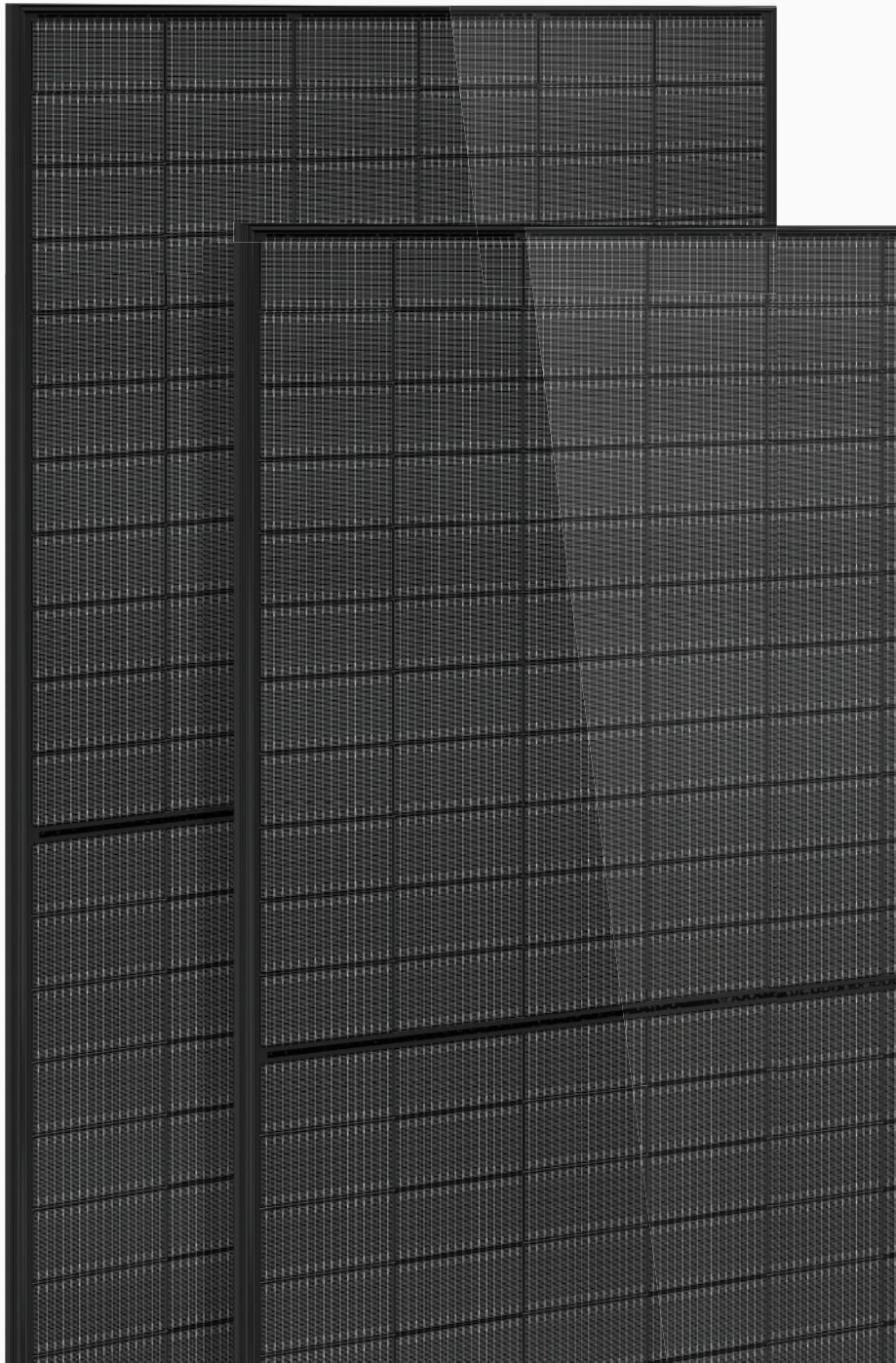
4 Times 100% EL Detection

Guarantee no micro cracks



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.



12years Material & process Warranty

30years Linear Performance Warranty

1% Linear Power Degradation in the First Year

0.4% Linear Power Degradation Every Year

PRODUCT QUALITY SYSTEM & CERTIFICATION



ELECTRICAL PROPERTIES

JU-182T-66HBG (Black) 132PCS

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
Maximum power - P _{mp} (W)	510	383.61	515	387.37	520	391.14	525	394.91
Open-circuit voltage - V _{oc} (V)	48.28	45.48	48.42	45.64	48.72	45.81	48.88	45.96
Short-circuit current - I _{sc} (A)	13.52	10.81	13.60	10.88	13.68	10.95	13.77	11.01
Maximum operating voltage - V _{mp} (V)	39.86	37.46	39.98	37.59	40.12	37.73	40.26	37.86
Maximum operating current - I _{mp} (A)	12.80	10.24	12.88	10.30	12.96	10.37	13.04	10.43
Module conversion efficiency - η _m	21.48%		21.69%		21.90%		22.11%	

ELECTRICAL PROPERTIES VERSUS POWER GAINS FROM THE REAR (TAKING A IRRADIANCE OF 510W)

	5%	15%	25%
Power gain	5%	15%	25%
Maximum power - P _{mp} (W)	536	587	638
Open-circuit voltage - V _{oc} (V)	48.28	48.28	48.29
Short-circuit current - I _{sc} (A)	14.19	15.54	16.89
Maximum operating voltage - V _{mp} (V)	39.86	39.86	39.88
Maximum operating current - I _{mp} (A)	13.44	14.72	16
Bifaciality	80±5%		

ABSOLUTE RATING

Power tolerance (W)	(0, +5)
Mechanical load	5400Pa
Maximum system voltage (V)	1500
Maximum series fuse rating (A)	25
Operating temperature	-40~+85°C

MECHANICAL PROPERTIES

Module dimensions(L*W*H)	2094X1134X30mm
Weight	30.2kg
Cell quantity	132PCS
Cell model	N-type TOPCon Monocrystalline182 x 91mm
Glass	2.0mm AR, High Transmission, Semi-tempered Glass
Frame	Anodized aluminium alloy
Junction box	IP68 Rated
Output line	4.0mm ² , wire length 300mm
Connector	MC4 Compatible

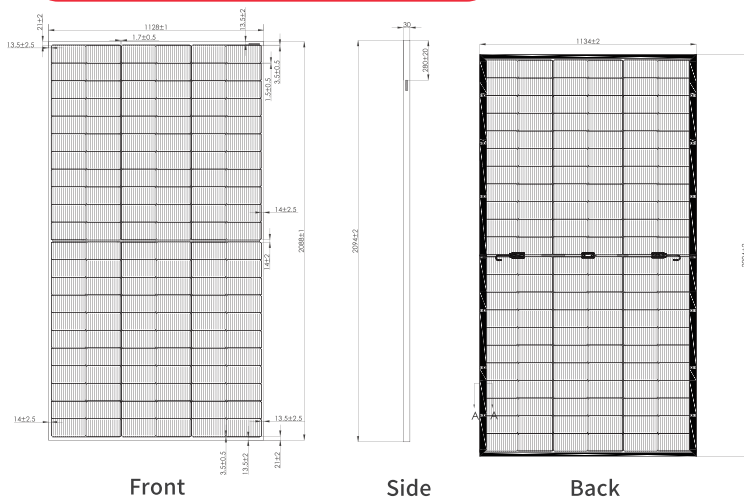
TEMPERATURE CHARACTERISTIC

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

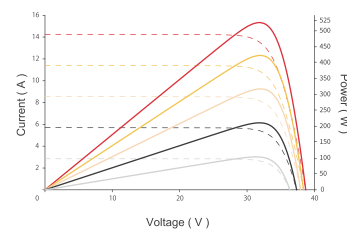
Container	40HQ
PCS / Pallet	36
PCS / Container	792

PRODUCT ASSEMBLY DRAWING(mm)

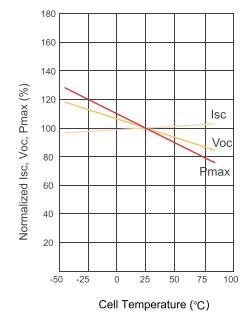


Current - Voltage & Power - Voltage Curve(525W)

— 1000w/m² — 800w/m² — 600w/m²
— 400w/m² — 200w/m²



Cell Temperature Curve of I_{sc}, V_{oc}, P_{max}



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