

「 210R mono TOPCon half-cell, high-efficiency bifacial module 」

430-455W 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.



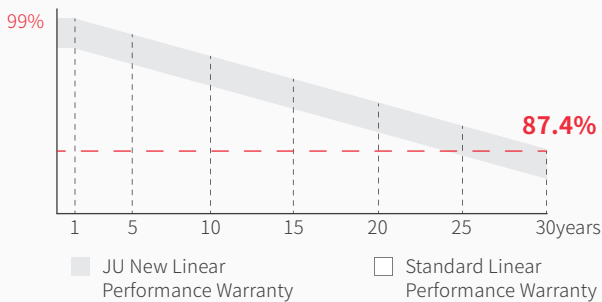
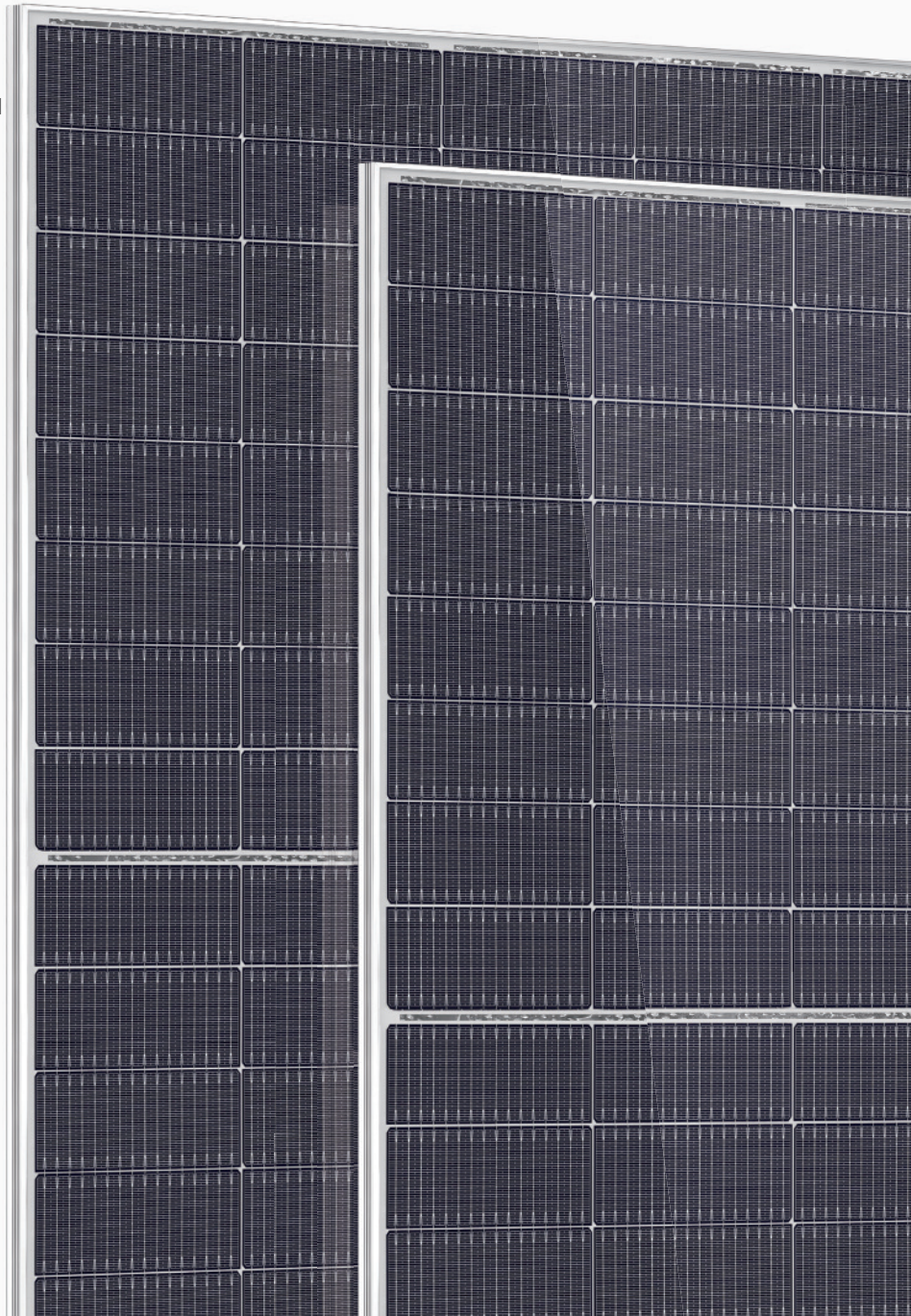
Excellent Weather Resistance

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



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-210R-48HBG

96PCS

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	STC	NOCT
Maximum power - P _{mp} (W)	430	369.9	435	374.33	440	378.53	445	382.75	450	387.25	455	391.51
Open-circuit voltage - V _{oc} (V)	35.42	37.26	35.63	37.48	35.84	37.70	36.05	37.92	36.26	38.14	36.47	38.36
Short-circuit current - I _{sc} (A)	15.40	12.18	15.46	12.23	15.52	12.27	15.58	12.32	15.64	12.37	15.70	12.42
Maximum operating voltage - V _{mp} (V)	29.22	31.26	29.45	31.50	29.68	31.75	29.91	31.99	30.14	32.24	30.37	32.49
Maximum operating current - I _{mp} (A)	14.72	11.83	14.78	11.88	14.83	11.92	14.88	11.96	14.94	12.01	14.99	12.05
Module conversion efficiency - η _m	21.52%		21.77%		22.02%		22.27%		22.52%		22.77%	

ELECTRICAL PROPERTIES VERSUS POWER GAINS FROM THE REAR (TAKING A IRRADIANCE OF 440W)

Power gain	5%	10%	15%
Maximum power - P _{mp} (W)	462	484	506
Open-circuit voltage - V _{oc} (V)	35.84	35.84	35.84
Short-circuit current - I _{sc} (A)	16.30	17.07	17.85
Maximum operating voltage - V _{mp} (V)	29.68	29.68	29.68
Maximum operating current - I _{mp} (A)	15.57	16.31	17.05
Bifaciality	80±5%		

ABSOLUTE RATING

Power tolerance (W)	(0, +5)
Mechanical load	Front5400Pa/Back2400Pa
Maximum system voltage (V)	1500
Maximum series fuse rating (A)	30
Operating temperature	-40~+85°C

MECHANICAL PROPERTIES

Module dimensions(L*W*H)	1762 x 1134 x 30mm
Weight	25.0kg
Cell quantity	96PCS
Cell model	N-type TOPCon Monocrystalline182 x 105mm
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

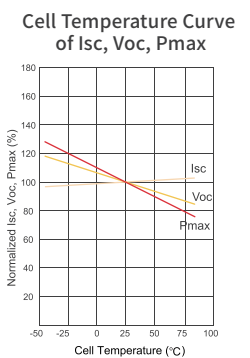
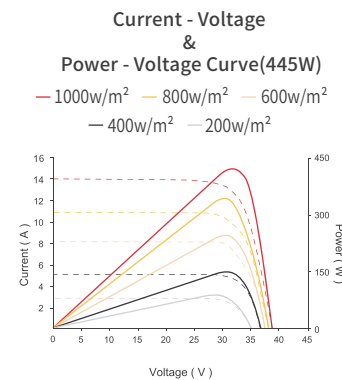
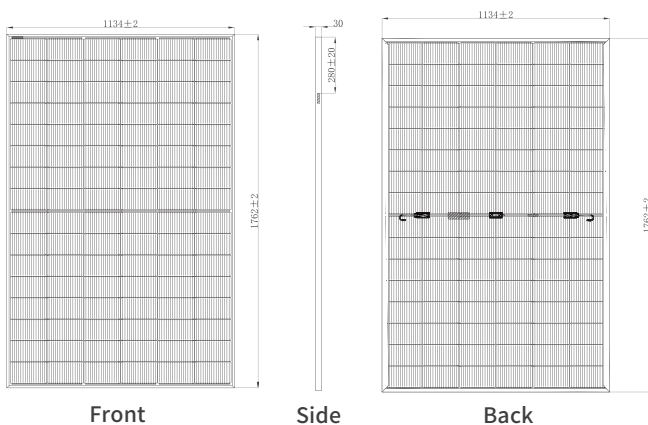
TEMPERATURE CHARACTERISTIC

Temperature coefficient (P _{max})	-0.30% / °C
Temperature coefficient (V _{oc})	-0.24% / °C
Temperature coefficient (I _{sc})	+0.04% / °C
NMOT	43±2°C

PACKAGING

Container	40HQ
PCS / Pallet	36
PCS / Container	936

PRODUCT ASSEMBLY DRAWING(mm)



www.jinenusolar.com



jingyou@jinenusolar.com



0086-400-888-3165

20GW ODM/OEM Solar Customization