

^r 210R mono TOPCon half-cell, high-efficiency bifacial module J

480-505W 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.



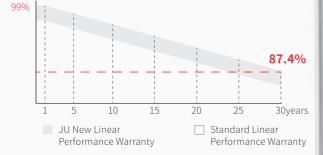
Excellent Weather Resistance

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

Guarantee no micro cracks



12years Material & process Warranty

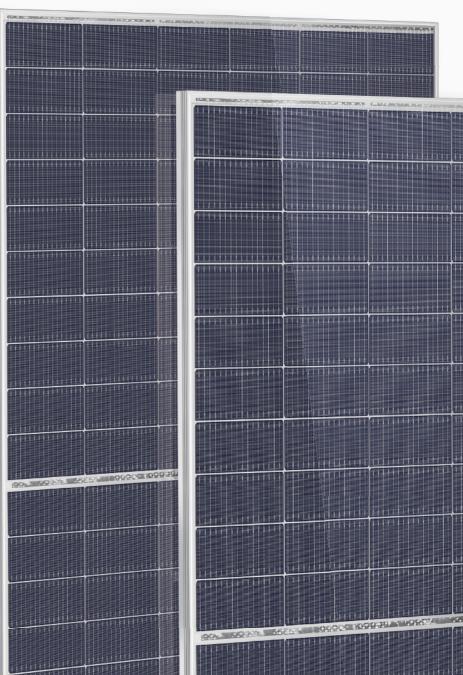
30years Linear Performance Warranty

1% Linear Power Degradation in the First Year

0.4% Linear Power Degradation Every Year

PRODUCT QUALITY SYSTEM & CERTIFICATION





ELECTRICAL PROPERTIES

JU-210R-54HBG 108PCS

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 - Pmp (W)	480 366	485 370	490 374	495 378	500 382	505 386
Open-circuit voltage - Voc (V)	39.32 37.91	39.52 37.99	39.72 38.07	39.92 38.15	40.12 38.23	40.32 38.31
Short-circuit current - Isc (A)	15.73 12.71	15.76 12.73	15.79 12.75	15.82 12.77	15.85 12.79	15.88 12.81
Maximum operating voltage - Vmp (V	32.52 30.46	32.72 30.73	32.92 31.00	33.12 31.27	33.32 31.54	33.52 31.81
Maximum operating current - Imp (A) 14.78 12.02	14.84 12.05	14.90 12.08	14.96 12.11	15.02 12.14	15.08 12.17
Module conversion efficiency - ηm	21.58%	21.81%	22.03%	22.26%	22.48%	22.71%

ELECTRICAL PROPERTIES VERSUS POWER GAINS FROM THE REAR (TAKING A IRRADIANCE OF 490W)

Power gain	5%	10%	15%
Maximum power - Pmp (W)	515	539	564
Open-circuit voltage - Voc (V)	39.72	39.72	39.72
Short-circuit current - Isc (A)	16.58	17.37	18.16
Maximum operating voltage - Vmp (V)	32.92	32.92	32.92
Maximum operating current - Imp (A)	15.65	16.39	17.14
Bifaciality		80±5%	

ABSOLUTE RATING

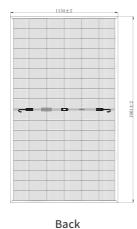
Power tolerance (W)
Mechanical load
Maximum system voltage (V)
Maximum series fuse rating (A)
Operating temperature

MECHANICAL PROPERTIES

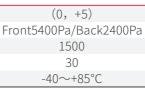
Module dimensi	ons(L*W*H)	1961 x 1134 x 30mm
Weight		27.6kg
Cell quantity		108PCS
		onocrystalline182 x 105mm
Glass 2.0mm AF	R, High Transmis	sion, Semi-tempered Glass
Frame		Anodized aluminium alloy
Junction box		IP68 Rated
Output line	4.	0mm ² , wire length 300mm
Connector		MC4 Compatible

PRODUCT ASSEMBLY DRAWING(mm)

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Front

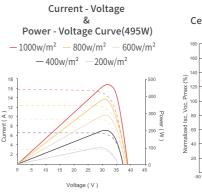


TEMPERATURE CHARACTERISTIC

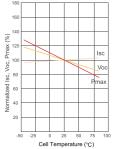
Temperature coefficient (Pmax)	-0.30% / °C
Temperature coefficient (Voc)	-0.24% / °C
Temperature coefficient (Isc)	+0.04% / °C
NMOT	43±2°C

PACKAGING

Container	40HQ
PCS / Pallet	36
PCS / Container	864









20GW ODM OEM Solar Customization

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Side

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*Specifications included in this datasheet are subject to change without notice. JinenU reserves the right of final interpretation. (202304V02)