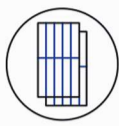




(182mm mono TOPCon half-cell, high-efficiency monocrystalline module)

400-415W 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.



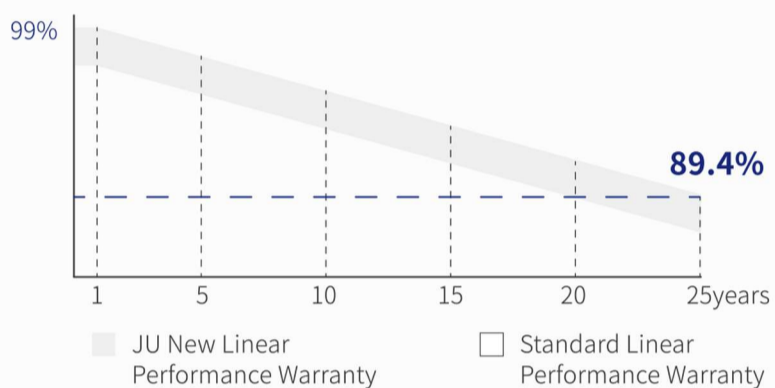
Excellent Weather Resistance
The solar modules can meet the IEC standard requirements with strong resistant to risks such as salt spray, ammonia gas, dust, snail marks and electric potential induced attenuation.



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

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	STC	NOCT
Max power - P _{mp} (W)	410	313.5	415	317.3	420	321.1	425	325	430	328.7	435	333	440	337
Open-circuit voltage - V _{oc} (V)	38.20	36.30	38.33	36.40	38.46	36.50	38.59	36.60	38.72	36.80	38.85	36.92	38.98	37.05
Short-circuit current - I _{sc} (A)	13.93	11.23	14.01	11.30	14.09	11.36	14.17	11.42	14.25	11.49	14.33	11.55	14.41	11.62
Max operating voltage - V _{mp} (V)	31.59	29.60	31.78	29.70	31.96	29.90	32.15	30.00	32.33	30.20	32.51	30.37	32.69	30.54
Max operating current - I _{mp} (A)	12.98	10.60	13.06	10.68	13.14	10.75	13.22	10.82	13.30	10.89	13.38	10.96	13.46	11.02
Module conversion efficiency - η _m	21.00%		21.25%		21.51%		21.76%		22.00%		22.28%		22.53%	
Power tolerance (W)	(0, +5)													
Mechanical load	Front5400Pa/Back2400Pa													
Max system voltage (V)	1500													
Max series fuse rating (A)	25													
Operating temperature	-40~+85°C													

STRUCTURAL CHARACTERISTICS

Module dimensions(L*W*H)	1722 x 1134 x 30mm
Weight	21kg
Cell quantity	108PCS
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

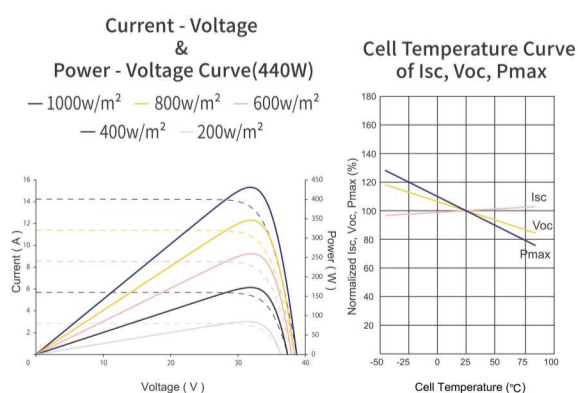
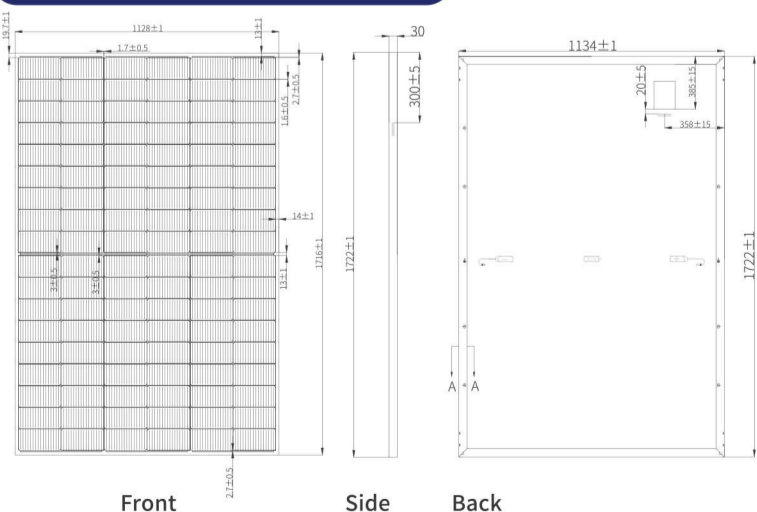
TEMPERATURE CHARACTERISTIC

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	936

PRODUCT ASSEMBLY DRAWING(mm)



20GW OEM/ODM Solar Customization

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