



JT SHt 470-490W Monocrystalline Solar Module

120 Cells / Mono TOPCon / 1500V DC / 22.7% Maximum Efficiency



KEY FEATURES



Leading TOPCon technology
MBB N-type TOPCon solar cell, maximum power output 490W
Better anti-LID & LETID performance



Highly reliable due to stringent quality control
Excellent PID resistance, 100% EL double inspection
In-house testing goes well beyond certification requirements



Excellent low light performance
Excellent low light performance on cloudy days
mornings and evenings



Certified to withstand the most challenging environment
2400 Pa wind load • 5400 Pa snow load • 25 mm hail stones at 82 km/h



QUALIFICATIONS & CERTIFICATES

- IEC 61215, IEC 61730, IEC 62941
- ISO 9001: Quality Management System
- ISO 14001: Environment Management System
- ISO 45001: Occupational Health and Safety

WARRANTY



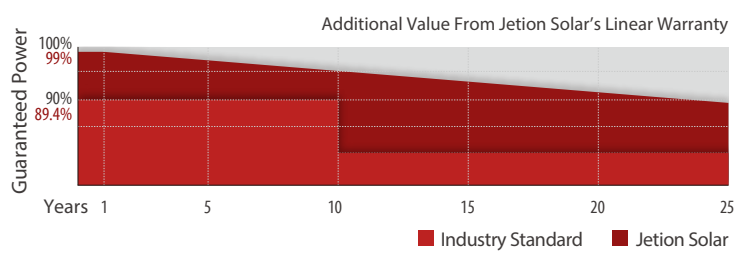
12 years Product Warranty



25 years Performance Warranty

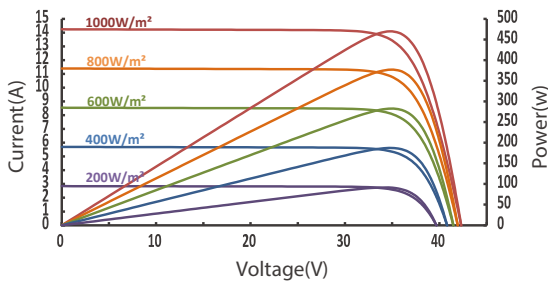
JETION SOLAR

As a member of CNBM - a Fortune 500 company, Jetion Solar provides various product solutions, global EPC service and financing. Its standard and high-efficiency product offerings are among the most powerful and cost-effective in the industry. Till now, Jetion Solar has cumulatively more than 17 GW module shipment and 1 GW global EPC track records.

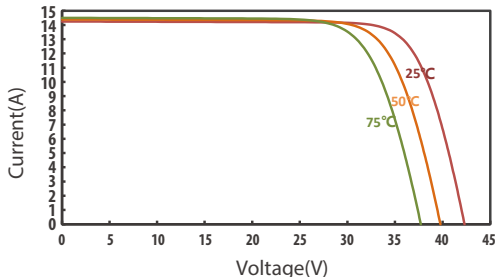


IV CURVES

IV Curves of JT470SHt at different irradiances



IV Curves of JT470SHt at different Temp



ELECTRICAL DATA *STC

TYPE (Tolerance: 0 - +5W)	JT470SHt	JT475SHt	JT480SHt	JT485SHt	JT490SHt
Maximum Power Pmax (W)	470	475	480	485	490
Maximum Power Voltage Vmp (V)	34.80	34.95	35.10	35.20	35.30
Maximum Power Current Imp (A)	13.51	13.60	13.69	13.78	13.89
Open Circuit Voltage Voc (V)	42.30	42.45	42.60	42.70	42.80
Short Circuit Current Isc (A)	14.25	14.34	14.43	14.52	14.61
Module Efficiency (%)	21.7%	22.0%	22.2%	22.4%	22.7%

STC: Irradiance 1000W/m², Cell Temperature 25°C, Air Mass AM1.5

Measuring tolerance: ±3%

ELECTRICAL DATA *NMOT

Maximum Power Pmax (W)	357	361	365	369	373
Maximum Power Voltage Vmp (V)	33.20	33.35	33.50	33.65	33.80
Maximum Power Current Imp (A)	10.75	10.82	10.89	10.96	11.03
Open Circuit Voltage Voc (V)	40.60	40.75	40.90	41.05	41.20
Short Circuit Current Isc (A)	11.34	11.41	11.48	11.55	11.62

NMOT: Irradiance at 800W/m², Ambient Temperature 20°C, Wind Speed 1m/s

TEMPERATURE RATINGS

Temperature Coefficient of Isc (αIsc)	+0.045%/°C
Temperature Coefficient of Voc (βVoc)	-0.25%/°C
Temperature Coefficient of Pmax (γPmp)	-0.30%/°C
Normal Module Operating Temperature (NMOT)	42°C±2°C

OPERATING PARAMETERS

Maximum System Voltage	1500V/DC(IEC)
Operating Temperature	-40°C~+85°C
Maximum Series Fuse	25A
Maximum Test Load, Push/Pull	5400Pa/2400Pa
Conductivity at Ground	≤ 0.1Ω
Safety Class	II
Resistance	≥100MΩ
Voc and Isc Tolerance	±3%

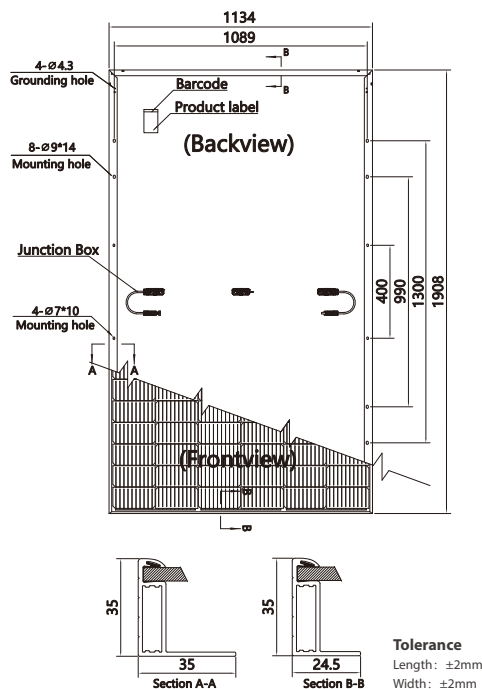
MECHANICAL DATA

Solar Cell Type	N-type
Number of Cells	120 [2 x (10 x 6)]
Module Dimensions	1908×1134×35 mm(75.1×44.6×1.4 inches)
Weight	22.9 kg(50.5 lb)
Front Cover	3.2 mm (0.13 inches), high transmission, AR coated tempered glass
Back Cover	White composite film
Frame	Silver, anodized aluminium alloy
J-Box	≥IP68
Cable	4.0 mm ² solar cable, 400mm(+)/200mm(-)
Number of diodes	3

PACKAGING CONFIGURATION

Module per pallet	31 pieces
Module per 40'HQ container	24 pallets, 744 pieces

DIMENSION



Remarks

*Installation instruction must be followed. See the installation manual or contact our technical service department for further information on approved installation.
 *The specification and key features described in this datasheet may deviate slightly and are not guaranteed. Due to ongoing innovation, R&D enhancement, JETION Solar (China) Co., Ltd. reserves the right to make any adjustment to the information described herein at any time without notice. Please always obtain the most recent version of the datasheet which shall be duly incorporated into the binding contract made by the parties governing all transactions related to the purchase and sale of the products described herein. JETION Solar_REV_2024_09_EN