JT SGh 530-550W

Monocrystalline Solar Module

144 Cells / Mono PERC / 1500V DC / 21.3% Maximum Efficiency

KEY FEATURES

Higher module conversion efficiency
Maximize limited space with high efficiency mono PERC cells
Half-cell design, lower Rs loss, lower hot spot temperature

Highly reliable due to stringent quality control
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

High system voltage compatible
Maximum 1500V DC system voltage saves total system cost

IP68 junction box
High waterproof level for long term weather endurance

QUALIFICATIONS & CERTIFICATES

- IEC 61215, IEC 61730
- ISO 9001: Quality Management System
- ISO 14001: Environment Management System
- ISO 45001: Occupational Health and Safety
- IEC 62941: Design and Manufacture of Crystalline Silicon Photovoltaic Modules

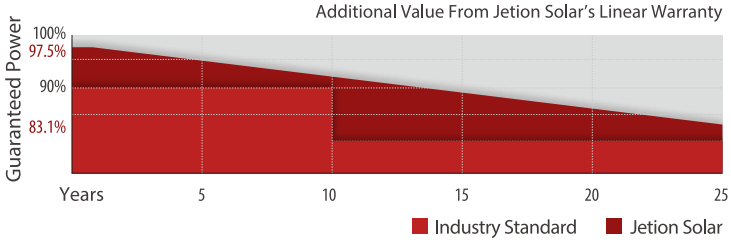
JETION SOLAR

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 10 GW module shipment and 1 GW global EPC track records.

WARRANTY

12 years Product Warranty

25 years Performance Warranty



Jetion Solar (China) Co., Ltd.
Add: 1011 Zhencheng Road, Jiangyin, Jiangsu Province, P.R. China 214443
Tel: +86 (510) 8668 7300 400-8868-659
E-mail: marketing@jetion.com.cn
Web: www.jetionsolar.com

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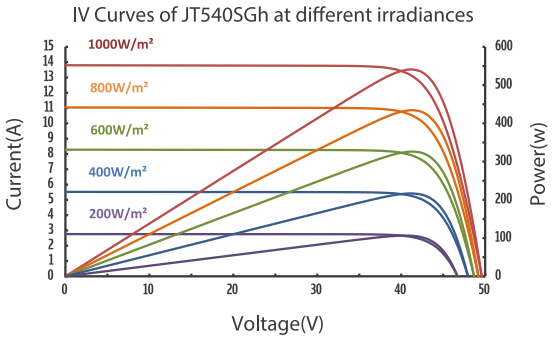
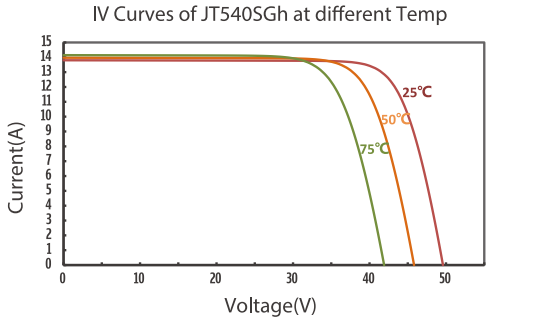
IV CURVES





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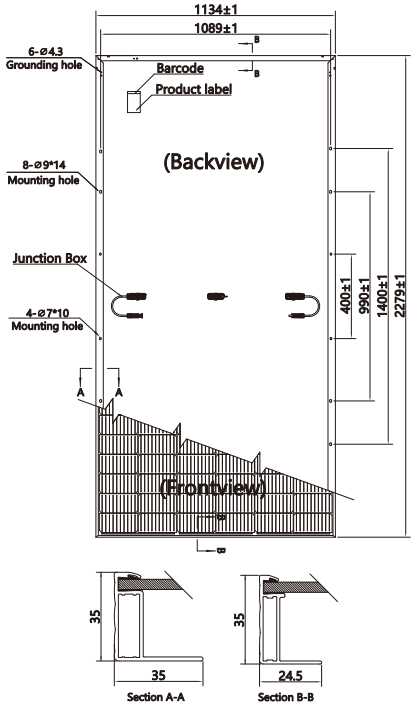

Remarks

ELECTRICAL DATA *STC

TYPE (Tolerance: 0 - +5W)	JT530SGh	JT535SGh	JT540SGh	JT545SGh	JT550SGh
Maximum Power Pmax (W)	530	535	540	545	550
Maximum Power Voltage Vmp (V)	41.3	41.5	41.7	41.9	42.1
Maximum Power Current Imp (A)	12.84	12.90	12.95	13.01	13.07
Open Circuit Voltage Voc (V)	49.2	49.4	49.6	49.8	50.0
Short Circuit Current Isc (A)	13.69	13.75	13.80	13.86	13.92
Module Efficiency (%)	20.5%	20.7%	20.9%	21.1%	21.3%

STC: Irradiance 1000W/m², Cell Temperature 25°C, Air Mass AM1.5 Measuring tolerance: ±3%

ELECTRICAL DATA *NMOT

Maximum Power Pmax (W)	397.20	401.19	405.21	409.25	413.31
Maximum Power Voltage Vmp (V)	38.6	38.8	39.0	39.2	39.4
Maximum Power Current Imp (A)	10.29	10.34	10.39	10.44	10.49
Open Circuit Voltage Voc (V)	46.2	46.4	46.6	46.8	47.0
Short Circuit Current Isc (A)	11.03	11.08	11.12	11.16	11.2

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

TEMPERATURE RATINGS

Temperature Coefficient of Isc (αIsc)	+0.048%/°C
Temperature Coefficient of Voc (βVoc)	-0.27%/°C
Temperature Coefficient of Pmax (γPmp)	-0.35%/°C
Normal Module Operating Temperature (NMOT)	41°C±3°C

OPERATING PARAMETERS

Maximum System Voltage	1000V/DC(IEC)/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	Mono 91×182 mm(3.6×7.2 inches)
Number of Cells	144 [2 x (12 x 6)]
Module Dimensions	2279×1134×35 mm(89.7×44.6×1.4 inches)
Weight	29.0 kg(63.9 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 mm² solar cable, 150/300 mm(5.9/11.8 inches)
Number of diodes	3
Connector	MC4 EVO2 compatible

PACKAGING CONFIGURATION

Module per pallet	31 pieces
Module per 40'HQ container	20 pallets, 620 pieces

*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_2021_05_EN

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