

#### 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.

#### KEY FEATURES



##### Ultra-high power output

MBB mono PERC cell technology, maximum power output 550W  
Half-cut cell layout, lower  $R_s$  loss and thermal coefficients  
Bifacial cell, additional 5%-30% more yield



##### Ultra-high reliability

Dual-glass design with POE encapsulant, no PID risk  
100% EL double inspection, stringent internal quality control



##### 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



##### High fire class

Fire class C certified, minimize the fire risk of the system

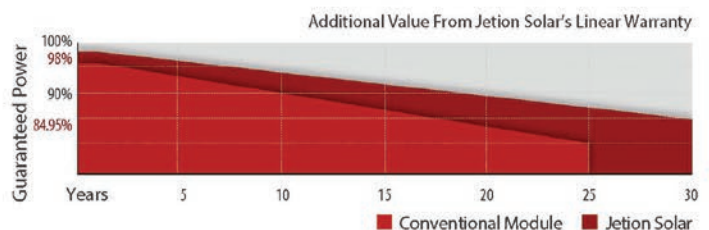
#### WARRANTY

12 years

Product  
Warranty

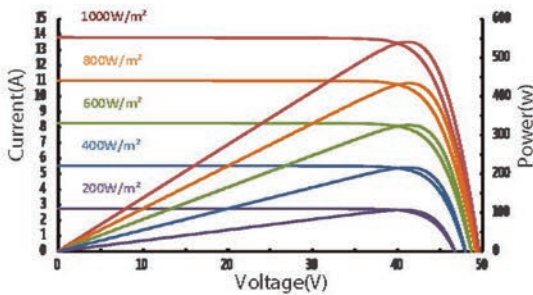
30 years

Performance  
Warranty

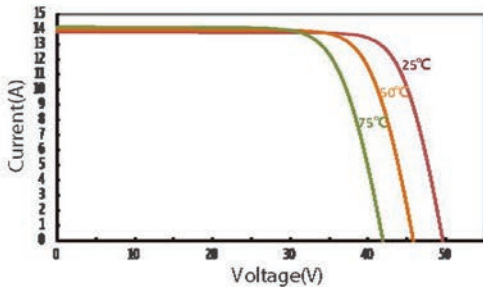


## IV CURVES

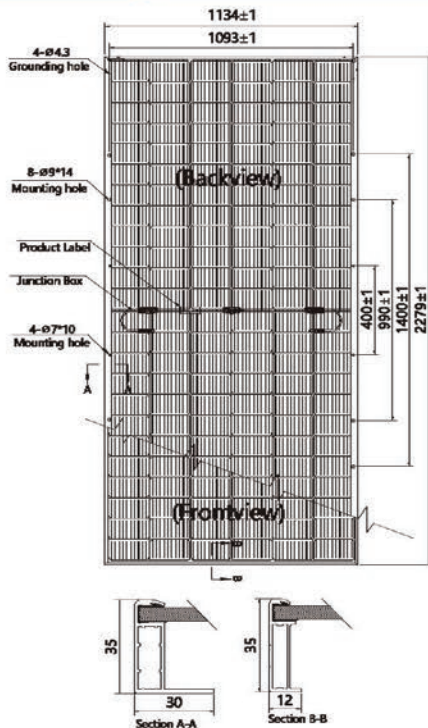
IV Curves of JT540SSh(B) at different irradiances



IV Curves of JT540SSh(B) at different Temp



## DIMENSION



Remarks

## ELECTRICAL DATA

| TYPE (Tolerance: 0 ~ +5W)     | JT530SSh(B) |        | JT535SSh(B) |        | JT540SSh(B) |        | JT545SSh(B) |        | JT550SSh(B) |        |
|-------------------------------|-------------|--------|-------------|--------|-------------|--------|-------------|--------|-------------|--------|
| Test Condition                | STC         | NMOT   | STC         | NMOT   | STC         | NMOT   | STC         | NMOT   | STC         | NMOT   |
| Maximum Power Pmax (W)        | 530         | 395.26 | 535         | 399.25 | 540         | 403.26 | 545         | 407.29 | 550         | 411.34 |
| Maximum Power Voltage Vmp (V) | 41.3        | 38.6   | 41.5        | 38.8   | 41.7        | 39.0   | 41.9        | 39.2   | 42.1        | 39.4   |
| Maximum Power Current Imp (A) | 12.84       | 10.24  | 12.90       | 10.29  | 12.95       | 10.34  | 13.01       | 10.39  | 13.07       | 10.44  |
| Open Circuit Voltage Voc (V)  | 49.6        | 46.2   | 49.8        | 46.4   | 50.0        | 46.6   | 50.2        | 46.8   | 50.4        | 47.0   |
| Short Circuit Current Isc (A) | 13.69       | 11.03  | 13.75       | 11.08  | 13.80       | 11.12  | 13.86       | 11.16  | 13.92       | 11.2   |
| Module Efficiency (%)         | 20.5%       |        | 20.7%       |        | 20.9%       |        | 21.1%       |        | 21.3%       |        |

STC: Irradiance 1000W/m<sup>2</sup>, Cell Temperature 25°C, Air Mass AM1.5  
 NMOT: Irradiance at 800W/m<sup>2</sup>, Ambient Temperature 20°C, Wind Speed 1m/s

Measuring tolerance: ±3%

## REAR SIDE POWER GAIN (JT540SSh(B))

| Power Gain                      | 5%    | 10%   | 15%   | 20%   | 25%   | 30%   |
|---------------------------------|-------|-------|-------|-------|-------|-------|
| Maximum Power - Pmax (W)        | 567   | 594   | 621   | 648   | 675   | 702   |
| Maximum Power Voltage - Vmp (V) | 41.70 | 41.70 | 41.70 | 41.80 | 41.80 | 41.80 |
| Maximum Power Current - Imp (A) | 13.60 | 14.25 | 14.90 | 15.51 | 16.15 | 16.79 |
| Open Circuit Voltage - Voc (V)  | 49.60 | 49.60 | 49.60 | 49.70 | 49.70 | 49.70 |
| Short Circuit Current - Isc (A) | 14.45 | 15.10 | 15.75 | 16.36 | 17.00 | 17.64 |

## 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       | 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%           |
| Bifaciality                  | 70±5%         |

## 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            | 34.2 kg(75.4 lb)  |
| Front Cover       | High transmission, AR coated tempered glass, 2.0mm                        |
| Back Cover        | High transmission, Tempered, White Grid Glass/AR coating(optional), 2.0mm |
| Frame             | Silver, anodized aluminium alloy  |
| J-Box             | ≥ IP68  |
| Cable             | 4.0 mm <sup>2</sup> solar cable, 1300 mm(51.2 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 |



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دفتر تهران: بزرگراه حقانی، خیابان دیدار شمالی، نیش خیابان کیش

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