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EnergyPal

Solar Panel Guide Specification Data Sheet

Jetion Solar (China) Co., Ltd.

JT SPh 305-320W

JT310SPh

Also available on the web at
EnergyPal.com/jetion-solar-china-co-ltd-solar-panels/jt310sph

JT SPh 305-320W

High Efficiency Monocrystalline Solar Module

60 Cells / Mono PERC / 1500V DC / 19.7% Maximum Efficiency



KEY FEATURES



High module conversion efficiency

Maximize limited space with mono PERC high efficiency cells



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
salt mist, ammonia corrosion and sand blowing testing



High system voltage Compatible

Maximum 1500V DC system voltage saves total system cost



Temperature Coefficient

Improved temperature coefficient decreases power loss
during high temperatures

QUALIFICATIONS & CERTIFICATES

- IEC 61215, IEC 61730, UL 1703, IEC 61701, IEC 62716
- ISO 9001: 2008: ISO Quality Management System
- ISO 14001: 2004: ISO Environment Management System
- OHSAS 18001: 2007: Occupational Health and Safety

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 has cumulatively more than 5 GW module shipment and 1 GW global EPC track records.

Jetion Solar (China) Co., Ltd.

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WARRANTY

12 years

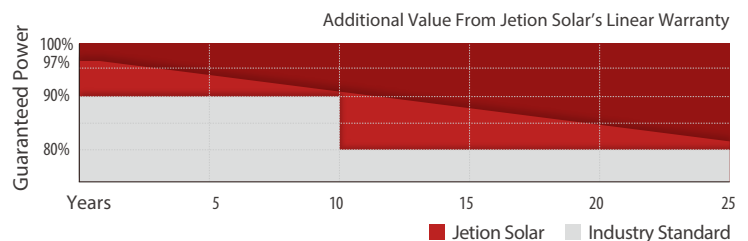
Product
Warranty

25 years

Performance
Warranty

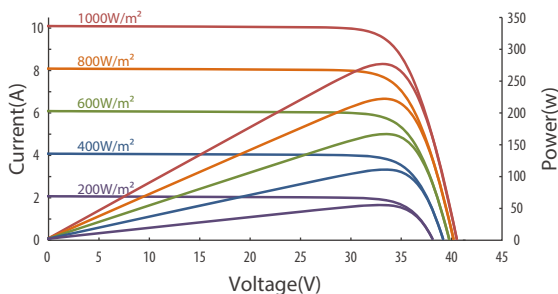
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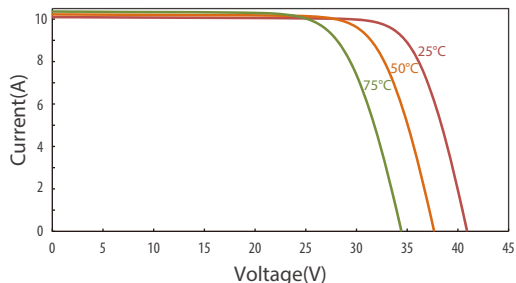


IV CURVES

IV Curves of JT 315 SPH at different irradiances



IV Curves of JT 315 SPH at different Temp



ELECTRICAL DATA *STC

| TYPE (Tolerance: 0 - +5W) | JT305SPH | JT310SPH | JT315SPH | JT320SPH |
|-------------------------------|----------|----------|----------|----------|
| Maximum Power Pmax (W) | 305 | 310 | 315 | 320 |
| Maximum Power Voltage Vmp (V) | 32.9 | 33.1 | 33.4 | 33.7 |
| Maximum Power Current Imp (A) | 9.28 | 9.37 | 9.44 | 9.50 |
| Open Circuit Voltage Voc (V) | 40.1 | 40.3 | 40.6 | 40.90 |
| Short Circuit Current Isc (A) | 9.84 | 9.94 | 10.02 | 10.10 |
| Module Efficiency (%) | 18.7% | 19.1% | 19.4% | 19.7% |

STC: Irradiance 1000W/m², Cell Temperature 25°C, Air² Mass AM1.5

ELECTRICAL DATA *NMOT

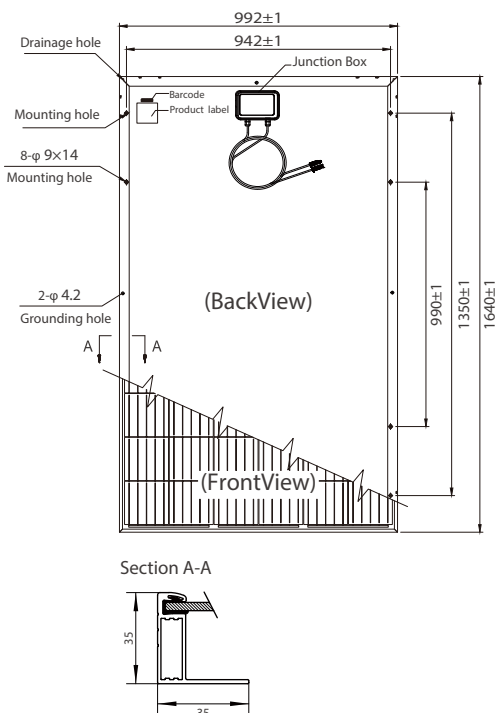
| | | | | |
|-------------------------------|-------|-------|-------|-------|
| Maximum Power Pmax (W) | 224.7 | 228.3 | 232.1 | 235.9 |
| Maximum Power Voltage Vmp (V) | 30.20 | 30.40 | 30.70 | 31.00 |
| Maximum Power Current Imp (A) | 7.44 | 7.51 | 7.56 | 7.61 |
| Open Circuit Voltage Voc (V) | 37.20 | 37.40 | 37.70 | 38.00 |
| Short Circuit Current Isc (A) | 7.92 | 7.99 | 8.04 | 8.09 |

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

TEMPERATURE RATINGS

| | |
|--|------------|
| Temperature Coefficient of Isc (αIsc) | +0.059%/°C |
| Temperature Coefficient of Voc (βVoc) | -0.30%/°C |
| Temperature Coefficient of Pmax (γPmp) | -0.39%/°C |
| Normal Module Operating Temperature (NMOT) | 43°C±2°C |

DIMENSION



Remarks

MAXIMUM RATINGS

| | |
|------------------------------|---------------|
| Maximum System Voltage | 1500V/DC(IEC) |
| Operating Temperature | -40°C~+85°C |
| Maximum Series Fuse | 15A |
| Maximum Test Load, Push/Pull | 5400Pa/2400Pa |
| Conductivity at Ground | ≤ 0.1Ω |
| Safety Class | II |
| Resistance | ≥ 100MΩ |

MECHANICAL DATA

| | |
|-------------------|--|
| Solar Cell Type | Mono 156.75×156.75 mm(6 inches) |
| Number of Cells | 60 (6×10) |
| Module Dimensions | 1640×992×35 mm(64.6×39.1×1.4 inches) |
| Weight | 18 kg(39.7 lb) |
| Front Cover | 3.2 mm (0.13 inches), high transmission, AR coated tempered glass |
| Backsheet | White composite film |
| Frame | Silver, anodized aluminium alloy |
| J-Box | IP68 Rated |
| Cable | 4.0 mm ² solar cable, 1000 mm(39.4 inches)/customizable |
| Number of diodes | 3 |
| Connector | MC4 or MC4 compatible |

PACKAGING CONFIGURATION

| | |
|----------------------------|------------|
| Module per pallet | 30 pieces |
| Module per 40'HQ container | 840 pieces |

Installation instruction must be followed. See the installation manual or contact our technical service department for further information on approved installation.