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Solar Panel Guide Specification Data Sheet

Zhejiang Beyondsun Holding Co., Ltd.

TSP-60/60H 270-290W

TSP290-60

Also available on the web at
EnergyPal.com/zhejiang-beyondsun-holding-co-ltd-solar-panels/tsp290-60

Standard Series TSP-60



Trunsun High Efficiency Polycrystalline Solar Module
270-290W



Approved Technology

Approved practice for different operating conditions



Positive Tolerance

Positive tolerance brings more power for free



Mechanical Load Endurance

Excellent mechanical load resistance: wind loads (2400Pa) & snow loads (5400Pa)

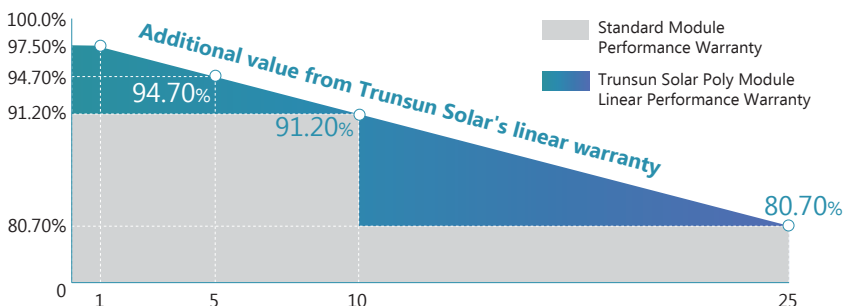


Guaranteed Reliability Against Harsh Environment

Due to Complicated Quality control system, offer survival solar module in harsh environment



LINEAR PERFORMANCE WARRANTY



12years Product Material & Workmanship

25years Linear Performance Warranty

About Trunsun Solar

Trunsun Solar, established in 2008, is dedicated to providing solar products with high quality, excellent performance and strong after-sales support. The company not only has strong financial support but also never stops innovating. Trunsun Solar will keep delivering the diversified solar products for all kinds of renewable energy generation systems around the world.

Standard Series TSP-60 Trunsun High Efficiency Polycrystalline Solar Module

| ELECTRICAL DATA @ STC* | | TSP270-60 | TSP275-60 | TSP280-60 | TSP285-60 | TSP290-60 |
|-----------------------------|-----|-------------|-----------|-----------|-----------|-----------|
| Peak Power (Pmax) | (W) | 270 | 275 | 280 | 285 | 290 |
| Maximum Power Voltage (Vmp) | (V) | 31.58 | 31.87 | 32.15 | 32.43 | 32.70 |
| Maximum Power Current (Imp) | (A) | 8.55 | 8.63 | 8.71 | 8.79 | 8.87 |
| Open-circuit Voltage (Voc) | (V) | 37.87 | 38.14 | 38.42 | 38.69 | 38.98 |
| Short-circuit Current (Isc) | (A) | 9.13 | 9.20 | 9.27 | 9.35 | 9.42 |
| Module Efficiency | (%) | 16.61 | 16.92 | 17.23 | 17.54 | 17.84 |
| Operating Temperature | | -40°C~+85°C | | | | |
| Maximum System Voltage | | 1000V | | | | |
| Maximum Series Fuse Rating | | 15A | | | | |
| Application Class | | Class A | | | | |
| Power Tolerance | | 0~+3% | | | | |

*STC (Standard Test Condition): Irradiance 1000W/ m², Module Temperature 25°C, AM 1.5

ELECTRICAL DATA @ NMOT*

| | | | | | | |
|-----------------------------|-----|-------|-------|-------|-------|-------|
| Peak Power (Pmax) | (W) | 200 | 204 | 207 | 211 | 215 |
| MPP Voltage (Vmp) | (V) | 29.15 | 29.42 | 29.68 | 29.93 | 30.18 |
| MPP Current (Imp) | (A) | 6.86 | 6.93 | 6.99 | 7.05 | 7.12 |
| Open Circuit Voltage (Voc) | (V) | 35.58 | 35.83 | 36.09 | 36.35 | 36.66 |
| Short Circuit Current (Isc) | (A) | 7.40 | 7.45 | 7.51 | 7.57 | 7.60 |

*Under Nominal Module Operating Temperature (NMOT), Irradiance of 800W/ m², Spectrum AM 1.5, Ambient Temperature 20°C, Wind Speed 1m/s

TEMPERATURE CHARACTERISTICS

| | | |
|---------------------------------|--|-----------|
| Temperature coefficient of Pmax | | -0.41%/°C |
| Temperature coefficient of Voc | | -0.33%/°C |
| Temperature coefficient of Isc | | 0.05%/°C |
| NMOT | | 43±3°C |

MECHANICAL DATA

| | | |
|-------------------|--|---------------------------|
| Cell Type | | Poly-Crystalline, 6" inch |
| Cell Arrangement | | 60pcs (6×10) |
| Dimension (L×W×H) | | 1640×991×35mm |
| Weight | | 18.2kg |
| Front Cover | | 3.2mm Tempered Glass |
| Frame | | Anodized Aluminium Alloy |
| Junction Box | | IP67, 3 Bypass Diodes |
| Cable Type | | 4mm ² |
| Length of Cable | | 1000mm |
| Connector | | PV Connector |

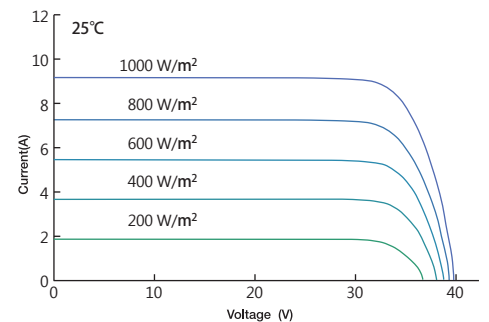
PACKING MANNER

| | | |
|------------------|--|------|
| Packing Type | | 40HQ |
| Piece/Pallet | | 30 |
| Pallet/Container | | 28 |
| Piece/Container | | 840 |

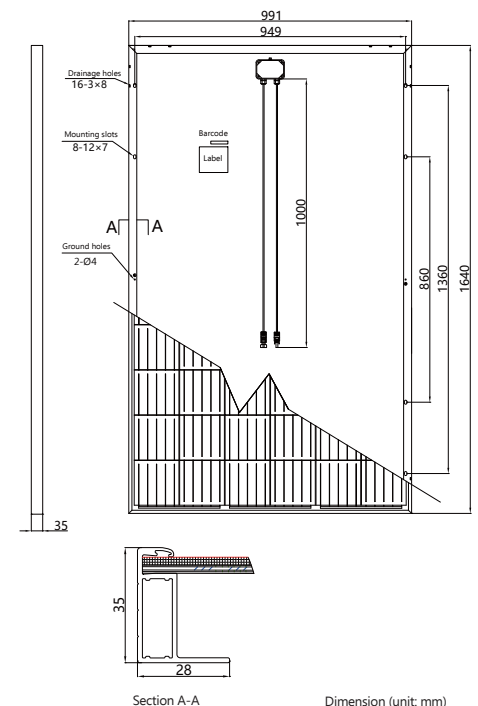
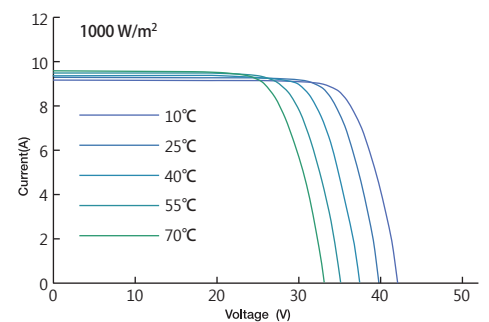
*The specification and key features described in this datasheet may deviate slightly and are not guaranteed. Due to ongoing innovation, R&D enhancement, Zhejiang Trunsun Solar Co., Ltd. Reserves the right to make any adjustment to the information described herein at any time without notice. Please always 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.

*Power measurement tolerance: ±3%

Current-Voltage Curve under different irradiance



Current-Voltage Curve under different working temperatures



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