PERC MONOCRystalline SOLAR MODULE TW300MWP-60

Advantages

Higher output power
With backside passivation in PERC cell, internal backside reflection of light is enhanced, and backside comission is reduced to improve cell efficiency and module power.

1.55X high-voltage system
Set capable for connecting more modules in series, and reduce number of power station cables and combiner boxes, increase space utilization and cut system cost.

Better performance in low light environment
Higher generating capacity than common module in low light insolation environments such as in the morning, evening and rainy days.

Strict quality control
Advanced full-automatic production line, 100% EL during process and ex-factory strict quality inspection control; 0~1% possible power output; optimized current grading; all these ensure generating performance matching of system-end module and high generation output of module.

Excellent reliability and weather resistance, longer service life
Weather-resistant package material, anti-PO solar cell, water-proof IP67 junction box and special cables for solar PV; all these functions protect module against temperature difference between day and night, seasonal change and abnormal wet and cold weather, and provide longer service life.

MECHANICAL CHARACTERISTICS

Dimensions: 590x1192x35mm (LxWxH)
Weight: 18.2kg
Front Glass: White toughened safety glass, 3.2mm
Encapsualtion: EVA (Ethylene-Vinyl Acetate)
Cell: Poly crystalline solar 5BB PERC cells
Backsheet: Composite film
Frame: Anodized aluminum profile
Cable: 6mm² copper wire, 2.1mm² Teflon sheath
Connector: Compatible with MC4

TEMPERATURE CHARACTERISTICS

NOCT: 45°C (127°F)
Temperature Coefficient of Voc: -0.32%/°C
Temperature Coefficient of Isc: -0.37%/°C
Temperature Coefficient of Pmp: -0.39%/°C

MAXIMUM RATINGS

Maximum System Voltage (V): DC 1000(V) / DC1000(LL)
Series Fuse Rating (A): 20
Maximum Surface Load Capacity (Pa): 5.400
Temperature Range (°C): -40 ℃ to +85
Withstanding Voltage: 2450V

ELECTRICAL CHARACTERISTICS AT STANDARD TEST CONDITIONS (STC)

Module Type: TW 300 MWP-60
Maximum Power-Peak [W]: 310 ± 10 [W]
Open Circuit Voltage-VOC [V]: 40.0 ± 1.2 [V]
Short Circuit Current-ISC [A]: 8.67 ± 0.09 [A]
Maximum Power Voltage-VMP [V]: 32.9 ± 0.3 [V]
Maximum Power Current-IMP [A]: 5.97 ± 0.13 [A]
Module Efficiency [%]: 19.2 ± 0.3 [%]

ELECTRICAL CHARACTERISTICS AT NOCT

Maximum Power-Peak [W]: 232 ± 10 [W]
Open Circuit Voltage-VOC [V]: 38.0 ± 0.5 [V]
Short Circuit Current-ISC [A]: 7.15 ± 0.08 [A]
Maximum Power Voltage-VMP [V]: 30.1 ± 0.2 [V]
Maximum Power Current-IMP [A]: 4.72 ± 0.06 [A]
Module Efficiency [%]: 17.4 ± 0.3 [%]

IV CURVE

PACKAGING

30 packs/case; 840 pcs/40’ container; 1440 pcs/flat car
10 year Product Workmanship Warranty
25 year Linear Power Warranty

* Specifications with the technical parameters and product compliance data in the product are subject to technical parameters in the specific specification. The TW Solar reserves the right to adjust the technical parameters at any time without notifying the customer. TW Solar has the ultimate power of interpretation in the current specifications.