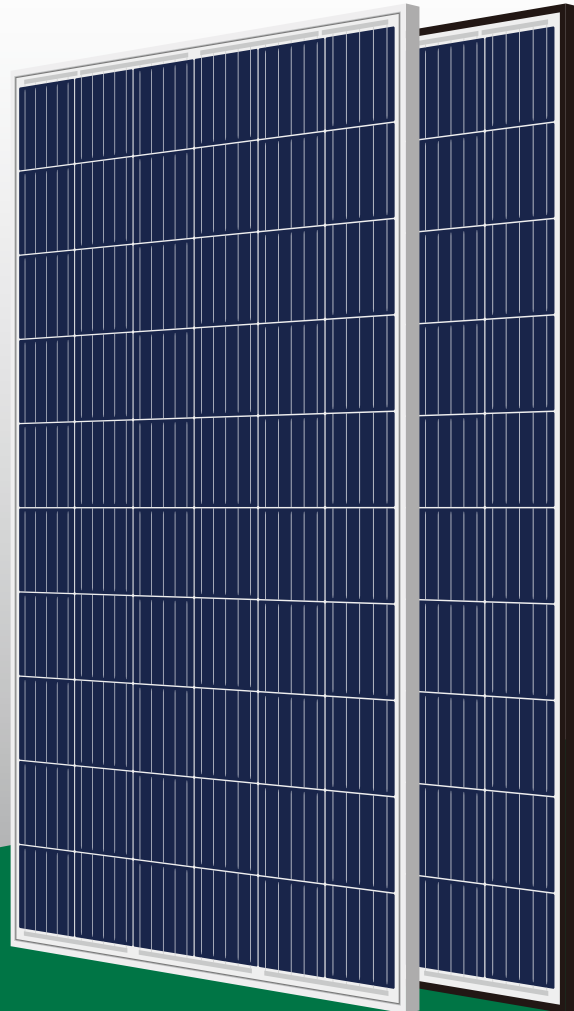


SP300P6-60 SERIES

Poly-crystalline 60Cells 280W-300W



10

10-year product workmanship warranty

10

10-year guarantee for 90% rated power

25

25-year guarantee for 80% rated power



Excellent power generation performance

Guaranteed 0~+5W positive rated power tolerance ensures more power generation every day



Long weather resistance

Excellent anti-PID(Potential Induced Degradation) Certified in fireproofing for safety



Stable mechanical performance

Passed rigorous hail test
Withstands 5400Pa snow and 2400Pa wind loads



Lower temperature coefficient

Improved temperature coefficient decreases power loss in the high temperature application.



Low-light Performance

Advanced glass and solar cell surface texturing allow for excellent performance in low-light environments.



Superior quality control

ISO 9001:2015 Quality Management System
100% EL and appearance inspection

POLYCRYSTALLINE 60 CELLS SOLAR MODULE 280W-300W

ELECTRICAL DATA(STC)

| Module | SP280P6-60 | SP285P6-60 | SP290P6-60 | SP295P6-60 | SP300P6-60 |
|------------------------------|------------|------------|------------|------------|------------|
| Peak Power Watts(Pmax/W) | 280 | 285 | 290 | 295 | 300 |
| Power Output Tolerance(W) | 0 ~ +5 | | | | |
| Maximum Power Voltage(Vmp/V) | 31.4 | 31.6 | 31.8 | 32.0 | 32.2 |
| Maximum Power Current(Imp/A) | 8.92 | 9.02 | 9.12 | 9.22 | 9.32 |
| Open Circuit Voltage(Voc/V) | 38.7 | 39.0 | 39.2 | 39.5 | 39.8 |
| Short Circuit Current(Isc/A) | 9.34 | 9.45 | 9.56 | 9.66 | 9.76 |
| Module Efficiency(%) | 17.1 | 17.4 | 17.7 | 18.0 | 18.3 |

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

*Measuring tolerance: ±3%.

ELECTRICAL DATA(NOCT)

| | | | | | |
|----------------------------|------|------|------|------|------|
| Maximum Power(Pmax/W) | 208 | 212 | 216 | 220 | 224 |
| Maximum Power Voltage(Vmp) | 29.4 | 29.6 | 29.7 | 29.9 | 30.1 |
| Maximum Power Current(Imp) | 7.10 | 7.18 | 7.26 | 7.33 | 7.44 |
| Open Circuit Voltage(Voc) | 36.4 | 36.7 | 36.8 | 37.1 | 37.4 |
| Short Circuit Current(Isc) | 7.46 | 7.55 | 7.64 | 7.72 | 7.80 |

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

MECHANICAL DATA

| | |
|-------------------|---|
| Solar Cells | Polycrystalline 156.75 × 156.75 mm (6 inches) |
| Cell Orientation | 60 cells (6 × 10) |
| Module Dimensions | 1650 × 992 × 35 mm (65.0 × 39.1 × 1.38 inches) |
| Weight | 18.6 kg (41.0 lb) |
| Glass | 3.2 mm (0.13 inches), High Transmission, AR Coated Tempered Glass |
| Backsheet | White |
| Frame | Silver / Black Anodized Aluminium Alloy |
| Junction Box | IP 67 or IP 68 rated |
| Cables | 4.0mm ² 1000 mm (39.4 inches) |
| Connector | MC4 |

TEMPERATURE RATINGS

| | |
|---|-------------|
| NOCT (Nominal Operating Cell Temperature) | 44°C (±2°C) |
| Temperature Coefficient of Pmax | - 0.41%/°C |
| Temperature Coefficient of Voc | - 0.31%/°C |
| Temperature Coefficient of Isc | +0.05%/°C |

MAXIMUM RATINGS

| | |
|-------------------------|---------------------------------|
| Operational Temperature | -40~+85°C |
| Maximum System Voltage | 1000V DC (IEC) 1000V DC (UL) |
| Max Series Fuse Rating | 15A |

WARRANTY

10 year Product Workmanship Warranty

25 year Linear Power Warranty

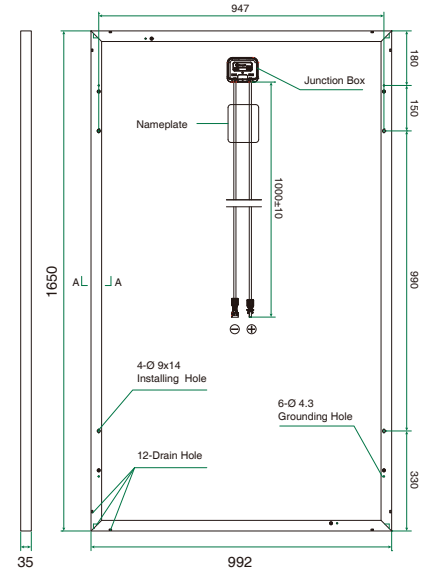
(Please refer to product warranty for details)

PACKAGING CONFIGURATION

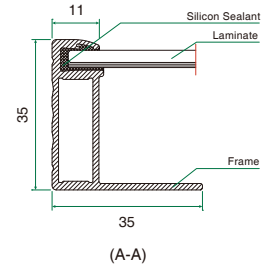
Modules per box: 30 pieces

Modules per 40' container: 840 pieces

DIMENSIONS OF PV MODULE(mm)

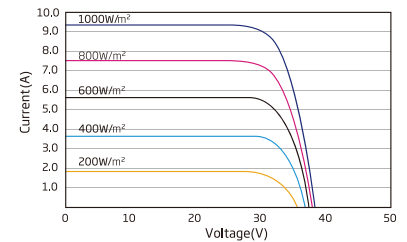


Back View



(A-A)

I-V CURVES OF PV MODULE(280W)



P-V CURVES OF PV MODULE(280W)

