

Solar And Renewable Power System

Solar Power

260 W - 285 W

Multi-Crystalline Photovoltaic Module



Positive power tolerance
0~+4.99 watt



Withstand strong front
load 5400 Pa / rear Load 2400 Pa



100% EL inline inspection
Better module reliability



Ammonia resistance



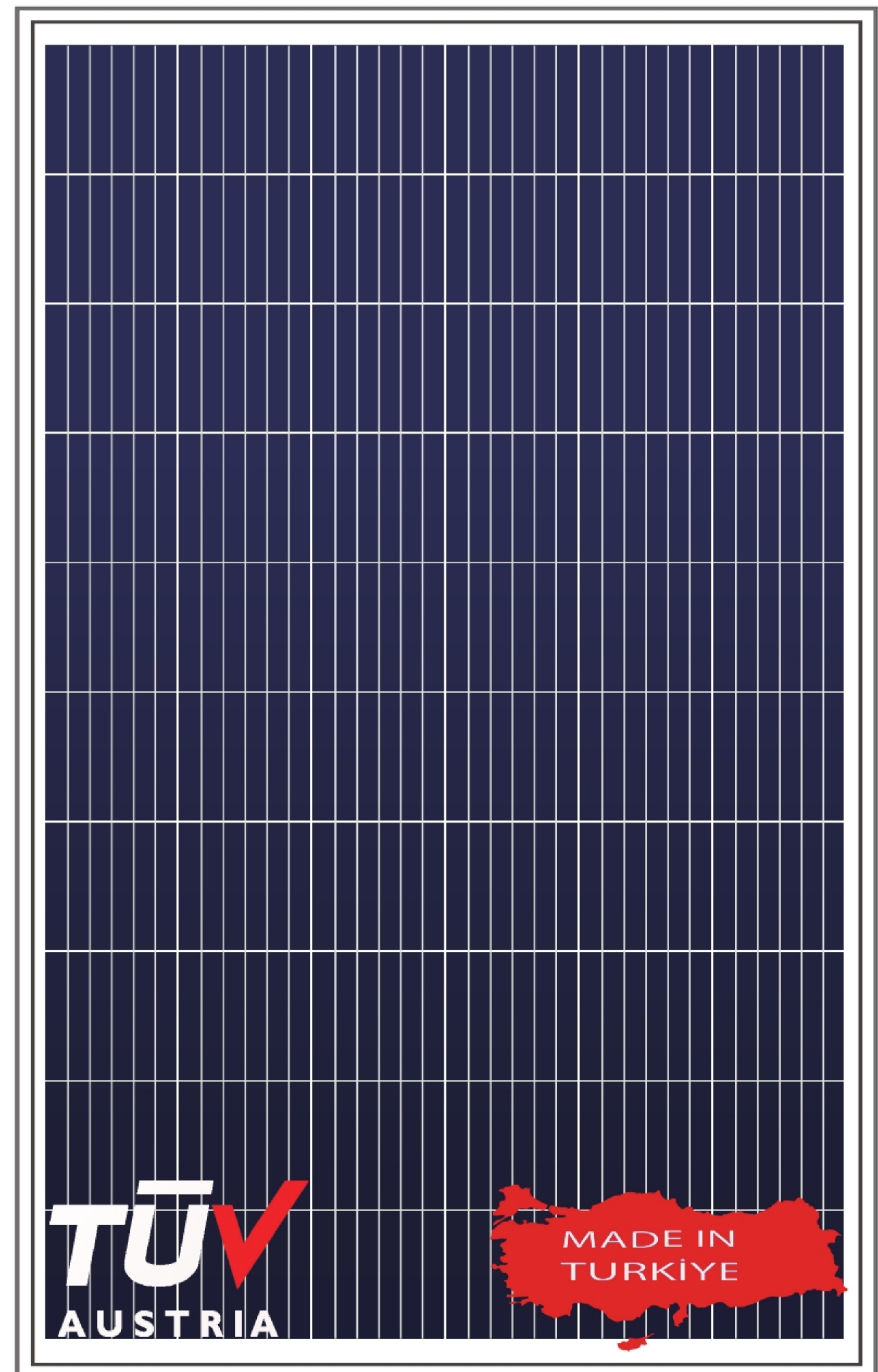
25 years power output warranty



Snail trail resistance



Design for 1500 VDC system voltage
Reduce the system BOS effectively



Harsh environment PV system installation

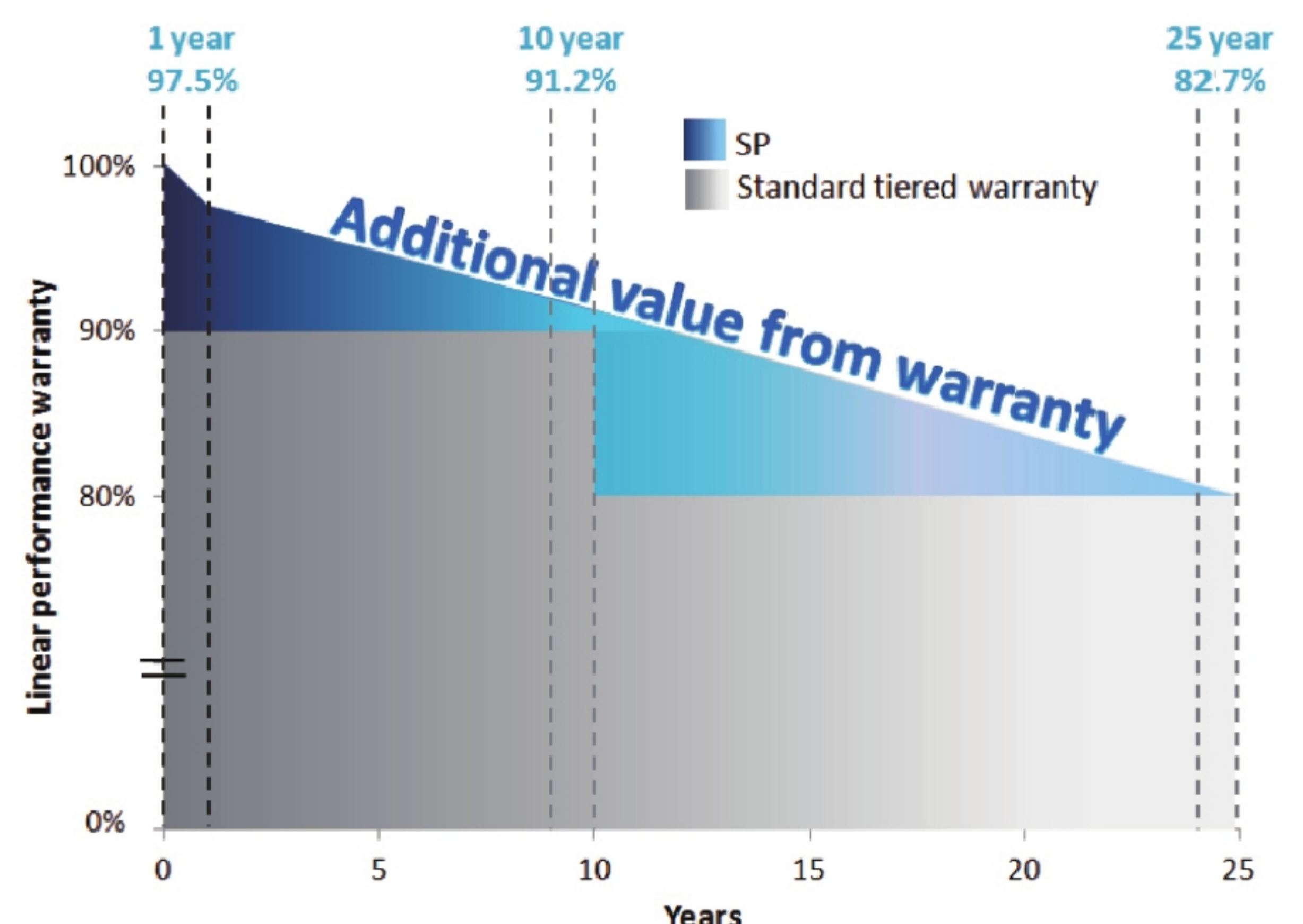


Excellent PID Performance

Reliability & Certification

Linear Performance Warranty

- 1-year: 97.5% power output then power degradation 0.7% per year till 25th year
- 25-year: 80.7% power output
- 10-year: 91.2% power output



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Electrical Data

| MODEL | SP-260P60 | SP-265P60 | SP-270P60 | SP-275P60 | SP-280P60 | SP-285P60 |
|------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|
| Maximum Rating Power (Pmax) | 260 W | 265 W | 270 W | 275 W | 280W | 285W |
| Module Efficiency | 16.0% | 16.3% | 16.6% | 16.9% | 17.21% | 17.52% |
| Open Circuit Voltage (Voc) | 37.67 V | 38.89 V | 38.20 V | 38.30 V | 38.40 V | 38.50 V |
| Maximum Power Voltage (Vmpp) | 30.73 V | 31.01 V | 31.24 V | 31.38 V | 31.52 V | 31.64 V |
| Short Circuit Current (Isc) | 8.88 A | 8.98 A | 9.19 A | 9.24 A | 9.30 A | 9.36 A |
| Maximum Power Current (Impp) | 8.48 A | 8.57 A | 8.66 A | 8.78 A | 8.90 A | 9.02 A |

* Standard Test Condition (STC): Cell Temperature 25 °C, Irradiance 1000 W/m², A.M. 1.5.

* Values w/o tolerance are typical numbers.

* Specifications subject to change

Mechanical Data

| Item | Specification |
|-------------------------|--|
| Dimension | 1640 mm (L) ¹ x 992 mm (W) ¹ x 35 mm (D) ² / 64.5" (L) ¹ x 39.1" (W) ¹ x 1.38" (D) ² |
| Weight | 18 kg / 39.7 lbs |
| Solar Cell | 60 multicrystalline 6" silicon cells |
| Front Glass | Anti-reflective tempered solar glass, 3.2mm thickness |
| Cell Encapsulation | EVA (Ethylene-Vinyl-Acetate) |
| Back Cover | Composite film, white |
| Junction Box | IP 68 rated; Cable: 1,000 mm |
| Frame | Anodized aluminum frame, original or black |
| Packaging Configuration | 30 pcs Per Pallet, 840 pcs Per 40' HQ container |

¹ : With assembly tolerance of ± 2 mm [± 0.08"]

² : With assembly tolerance of ± 0.8 mm [± 0.03"]

Operating Conditions

| Item | Specification |
|------------------------|---------------|
| Mechanical Load | 5400 Pa |
| Maximum System Voltage | DC 1500 V |
| Series Fuse Rating | 15 A |
| Operating Temperature | -40 to 85 °C |

Temperature Characteristics

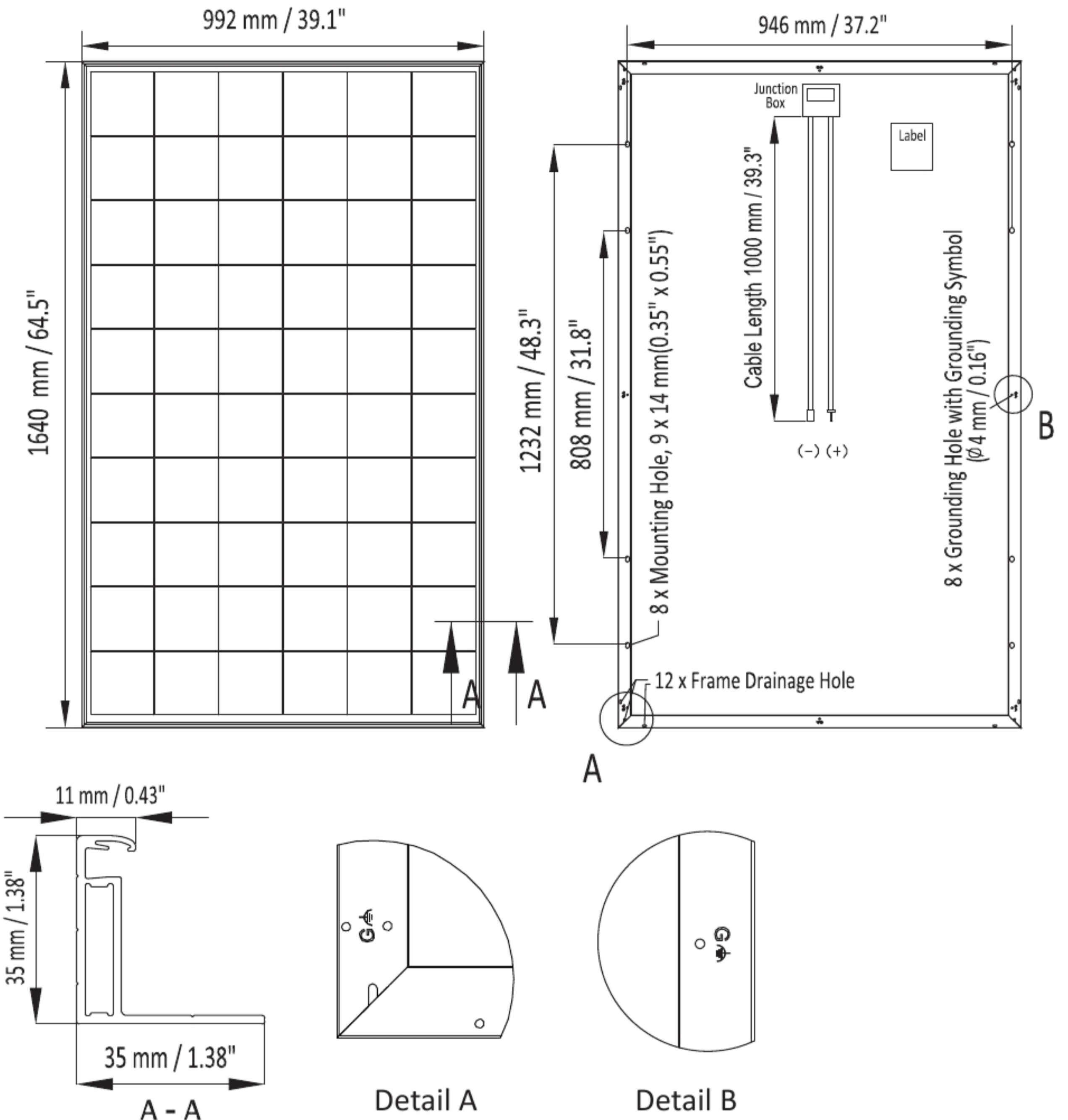
| Item | Specification |
|------------------------------------|----------------|
| Nominal Operating Cell Temperature | 44 °C ± 2°C |
| Temperature Coefficient of Isc | 0,0546 % / °C |
| Temperature Coefficient of Voc | -0,3326 % / °C |
| Temperature Coefficient of Pmax | -0,422 % / °C |

* Nominal Operating Cell Temperature (NOCT): Irradiance 800W/m², Ambient Temperature 20 °C, Wind Speed 1 m/s

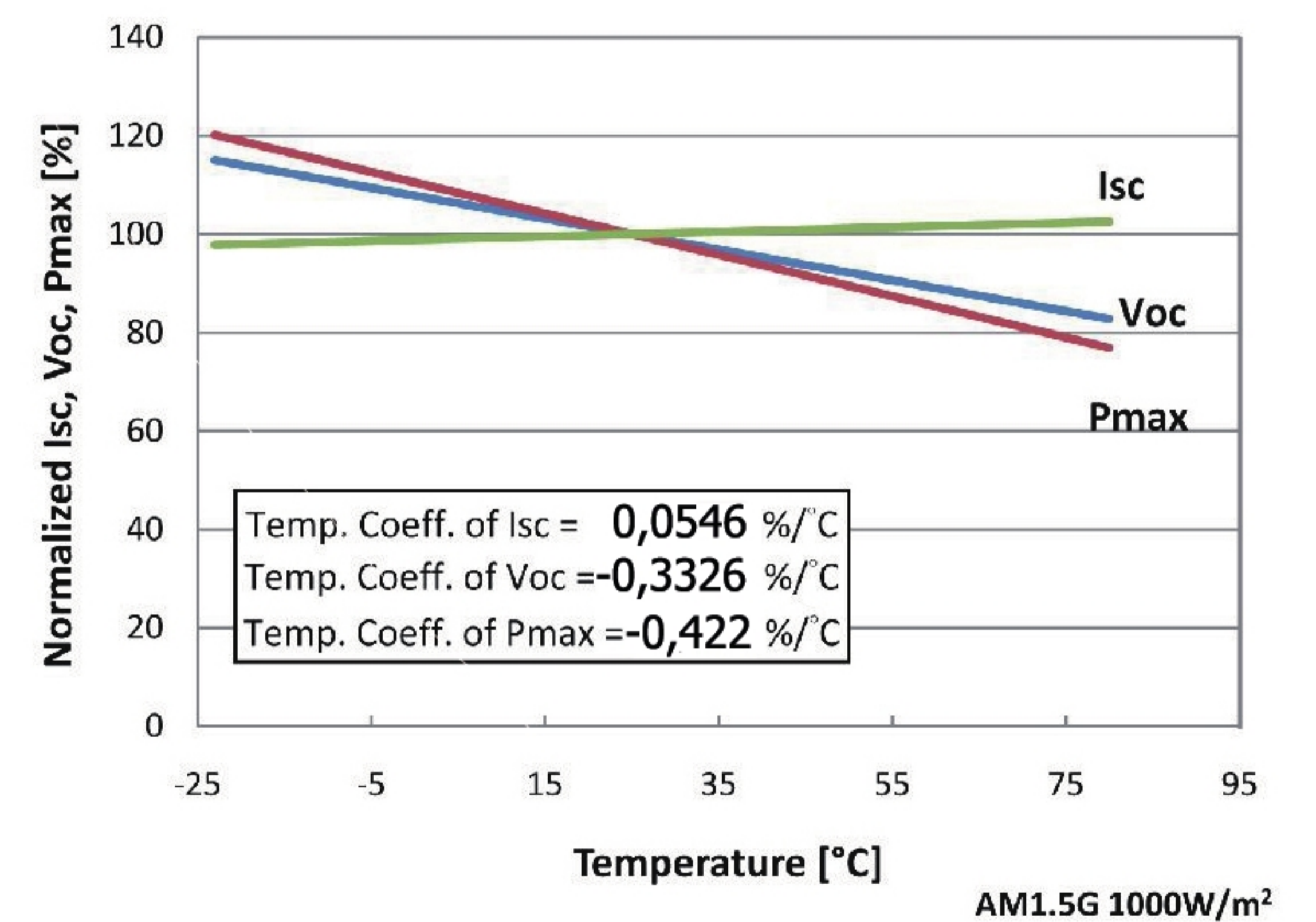
* Please refer to NSP's Standard Module Installation Manual before using the product

* Reduction in efficiency from 1000 W/m² to 200 W/m² at 25 °C: 3.5% ± 2 %

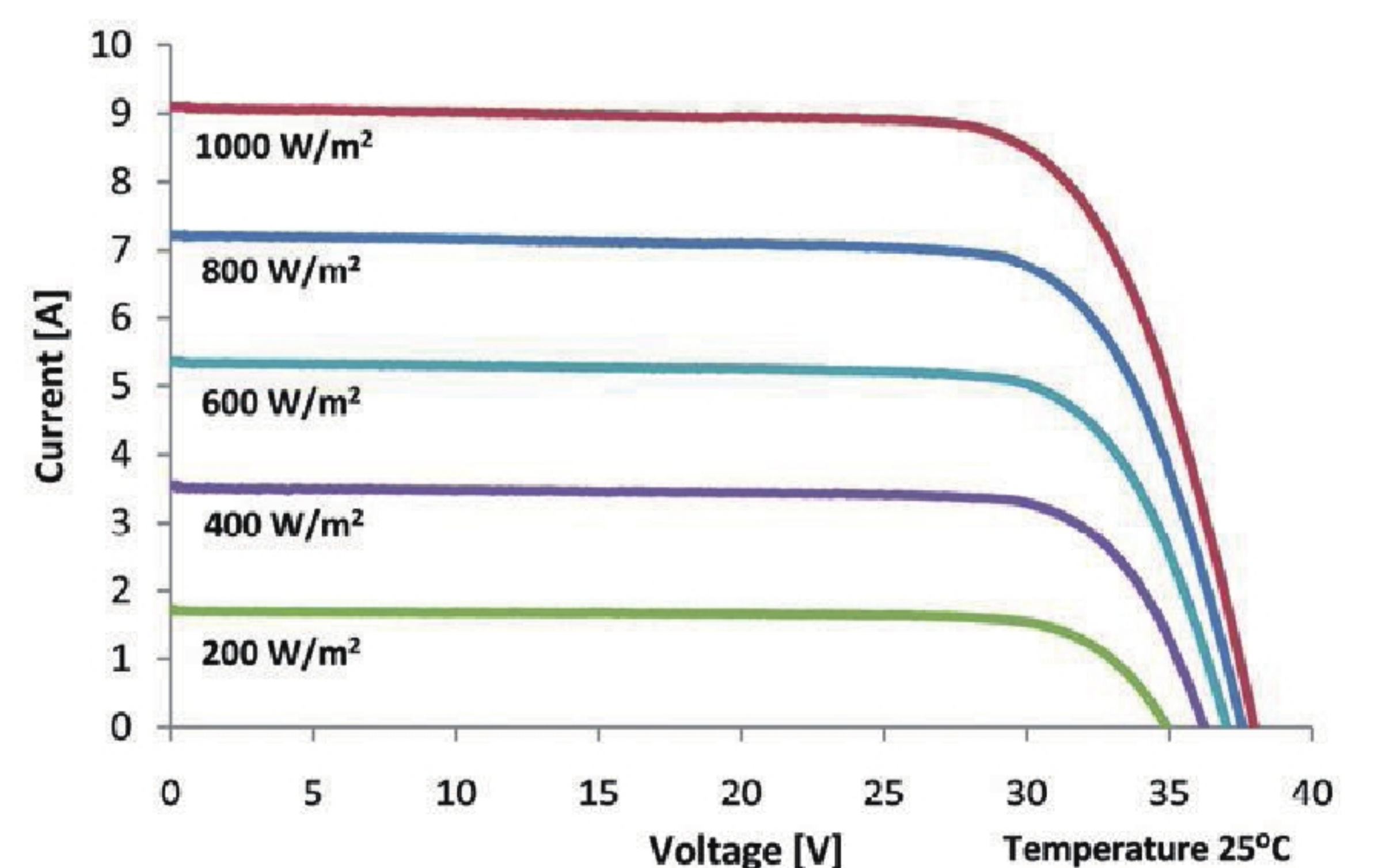
Front View & Back View



Dependence on Temperature



Dependence on Irradiance



Certificates

TUV Austria Certification, CE, ISO 9001:2015, ISO 14001: 2015, OHSAS 18001, FPC Factory Process Control certificate

Contact Us

Factory

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