

Solar And Renewable Power System



Solar Power 300 W - 320W

Mono-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



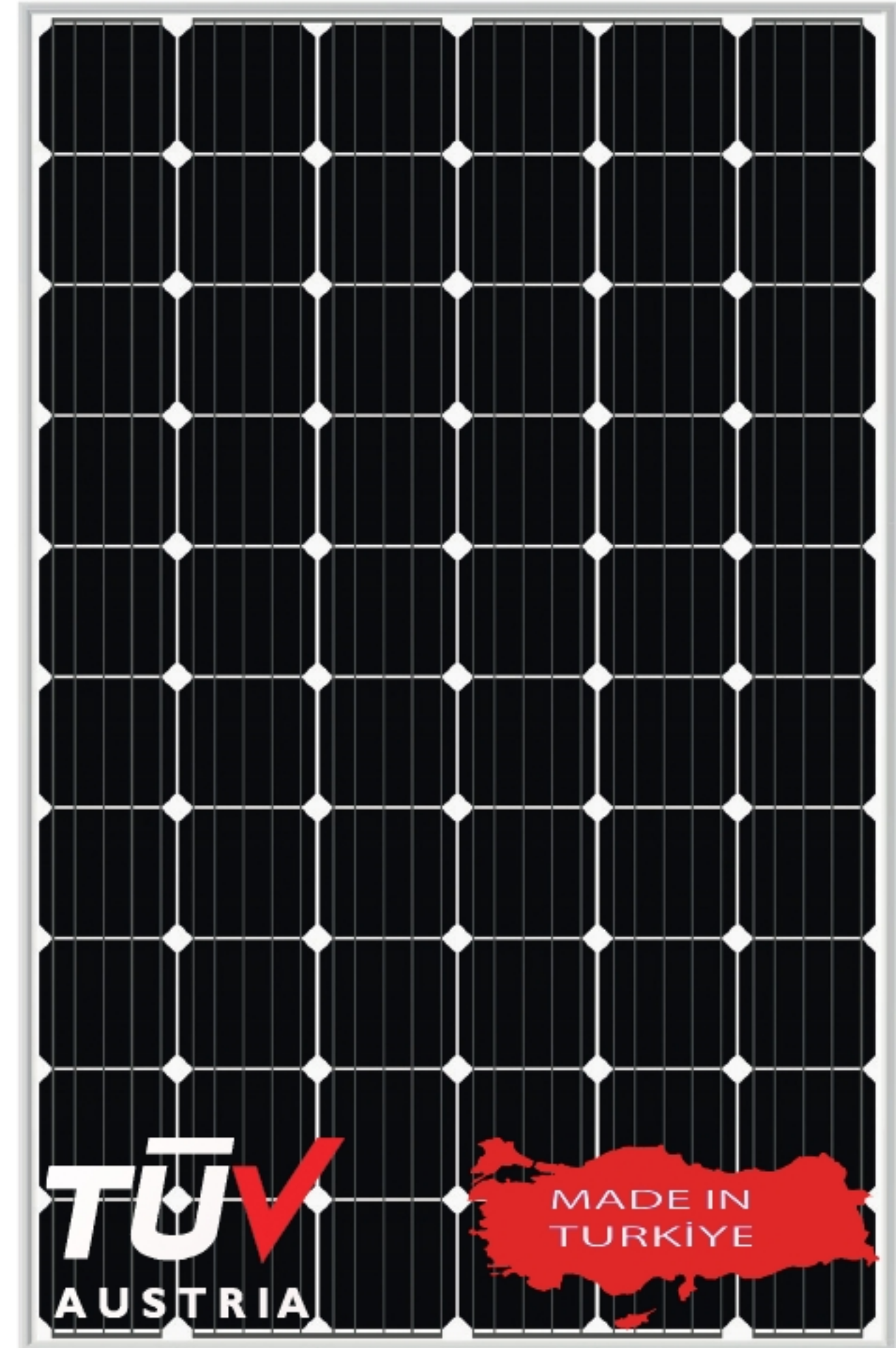
25 years power output warranty



Snail trail resistance



Design for 1500 VDC system voltage
Reduce the system BOS effectively



Harsh environment PV system installation



Excellent PID Performance

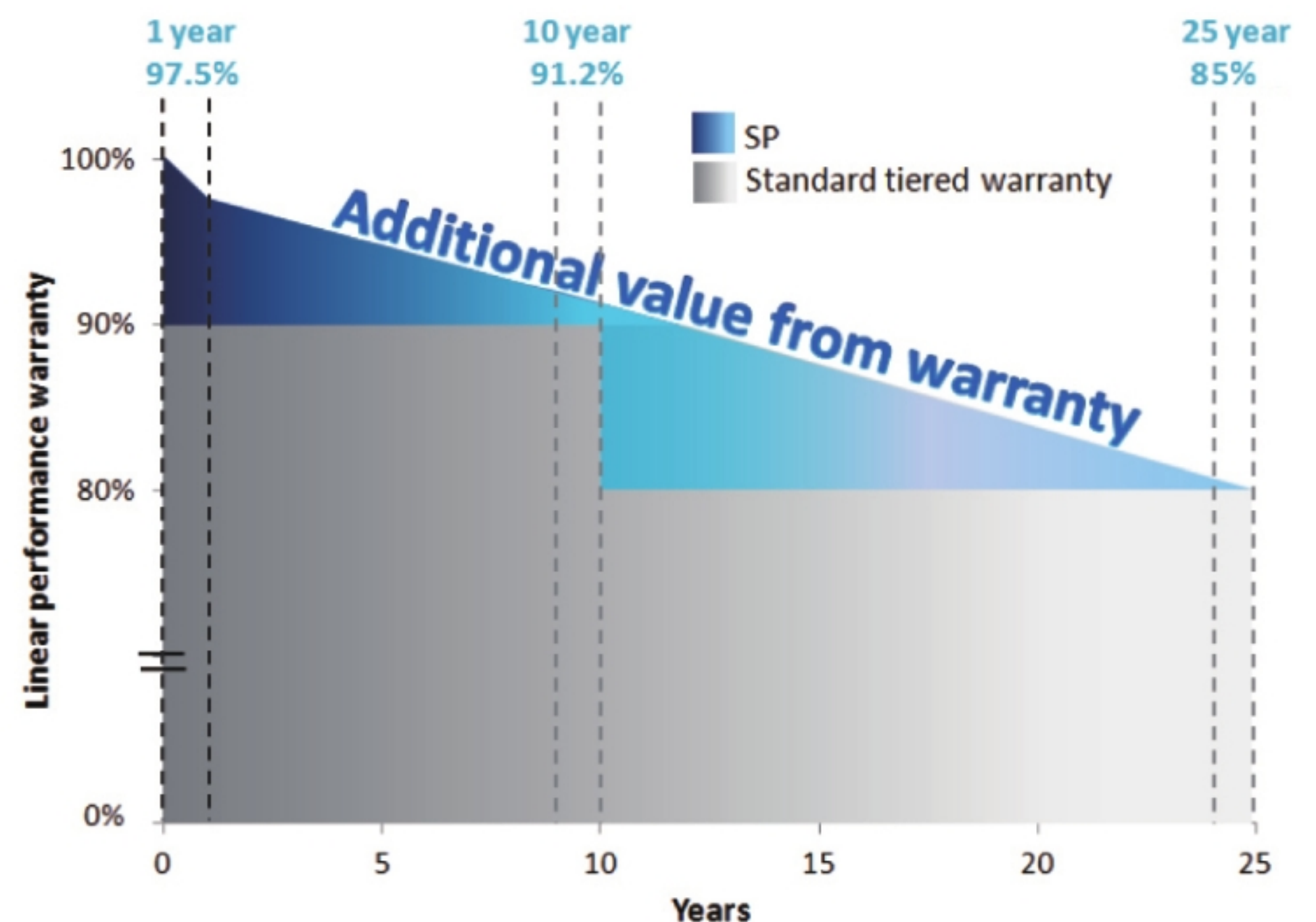
Reliability & Certification

Product Guarantee: 10-year

Linear Performance Warranty

- 1-year : 97.5% power output then
power degradation 0.5% per year
till 25th year

- 25-year : 85%



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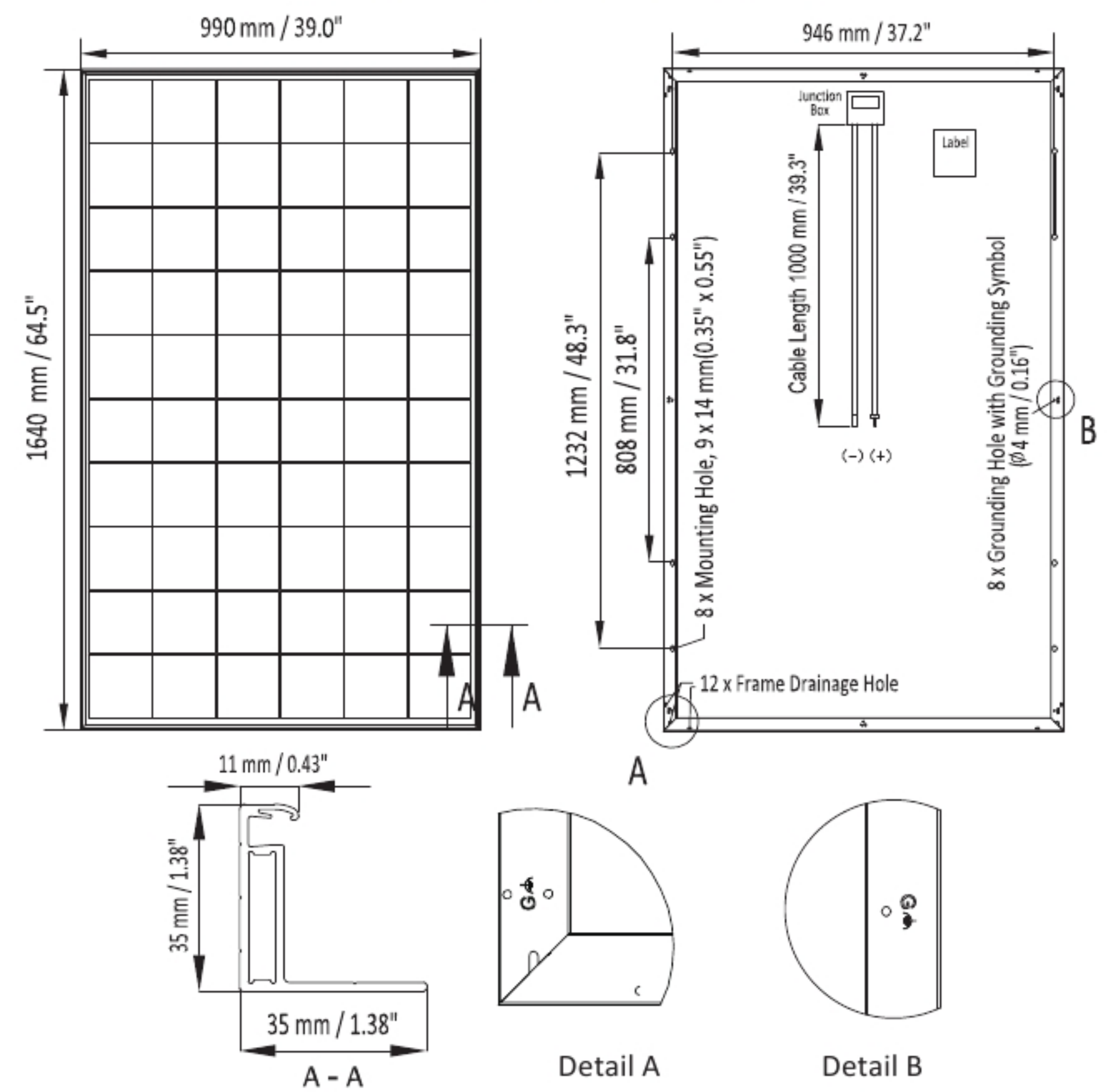
Electrical Data

MODEL	SP-300M60	SP-305M60
Maximum Rating Power (Pmax)	300 W	305 W
Module Efficiency	18.44%	18.75%
Open Circuit Voltage (Voc)	39.10 V	39.90 V
Maximum Power Voltage (Vmpp)	32.10 V	32.30 V
Short Circuit Current (Isc)	9.67 A	9.76 A
Maximum Power Current (Impp)	9.37 A	9.45 A

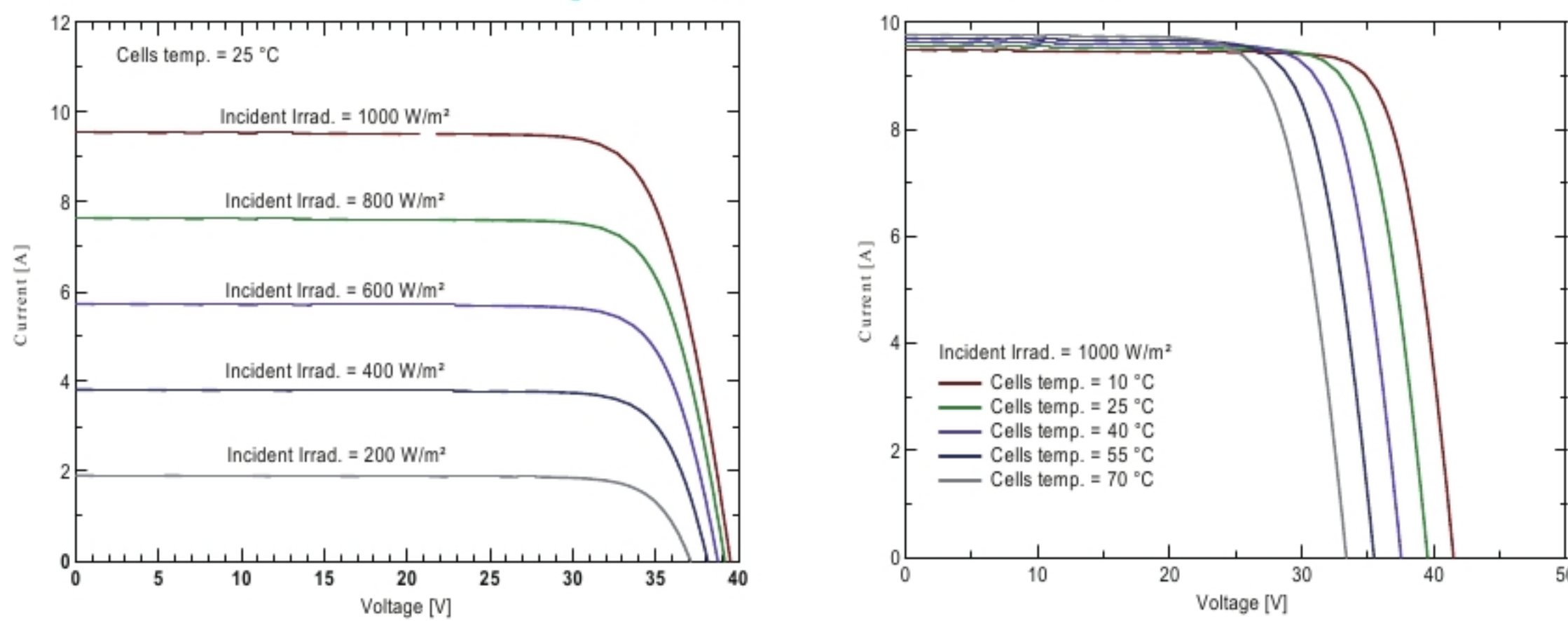
MODEL	SP-310M60	SP-315M60	SP-320M60
Maximum Rating Power (Pmax)	310 W	315 W	320 W
Module Efficiency	19.05%	19.36%	19.67%
Open Circuit Voltage (Voc)	40.20 V	40.40 V	40.60 V
Maximum Power Voltage (Vmpp)	32.60 V	32.80 V	33.00 V
Short Circuit Current (Isc)	9.82 A	9.92 A	10.02 A
Maximum Power Current (Impp)	9.51 A	9.61 A	9.70 A

* Standard Test Conditions (STC): Cell Temperature 25°C, Irradiance 1000 W/m², AM 1.5G
 * Values without tolerance are typical numbers
 * Specifications are subject to change without notice

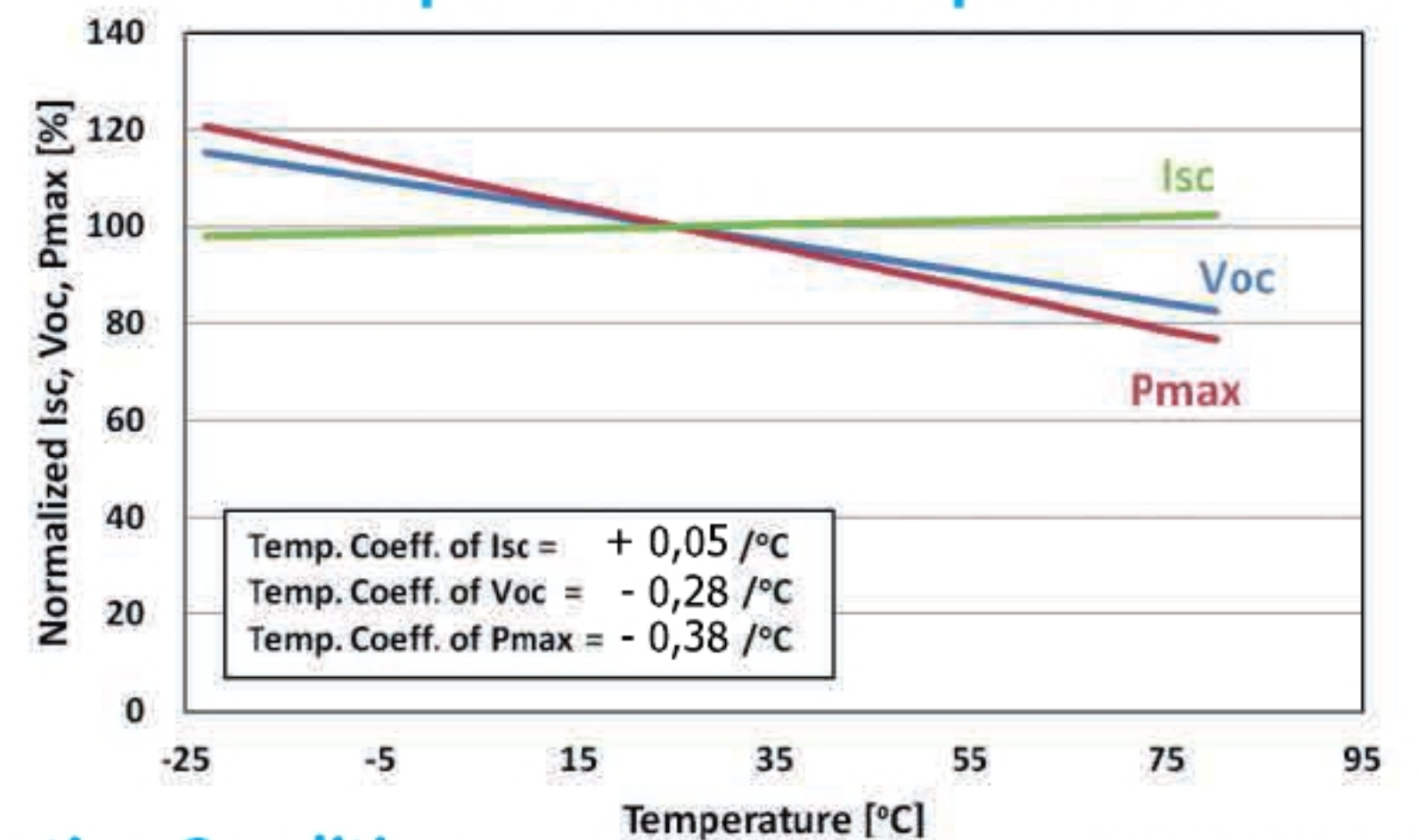
Front View & Back View



Dependence on Irradiance



Dependence on Temperature



Mechanical Data

Item	Specification
Dimensions	1640 mm (L) ¹ x 992 mm (W) ¹ x 35 mm (D) ¹ / 65.9" (L) x 39.1" (W) ¹ x 0.98" (D)
Weight	18 kg / 39.7 lbs
Solar Cell	60 monocrystalline 6" p-PERC bifacial solar cells
Front Glass	Anti-reflective tempered patterned glass, 3.2 mm
Cell Encapsulation	EVA (Ethylene-Vinyl-Acetate)
Rear Glass	Tempered patterned glass, 3.2 mm
Junction Box	IP 68 rated, 3 Diodes; Cable: 4.0 mm ² , 1000 mm
Packaging Configuration	30 pcs Per Pallet, 840 pcs Per 40' HQ container

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

Certificates

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

Operating Conditions

Item	Specification
Maximum Front Loading	5400 Pa
Maximum System Voltage	DC 1000 V & DC 1500 V
Operating Temperature	-40 to 85°C

Temperature Characteristics

Item	Specification
Nominal Operating Cell Temperature	46°C ± 2°C
Temperature Coefficient of Isc	+ 0,05 % / °C
Temperature Coefficient of Voc	- 0.28 % / °C
Temperature Coefficient of Pmax	- 0,38 % / °C

* Nominal Operating Cell Temperature (NOCT): Irradiance 800 W/m², Ambient Temperature 20°C, Wind Speed 1 m/s
 * Please refer to SP's Standard Module Installation Manual before using the product

Contact Us

Factory

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