

Solar And Renewable Power System



Solar Power

385 W - 410 W

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



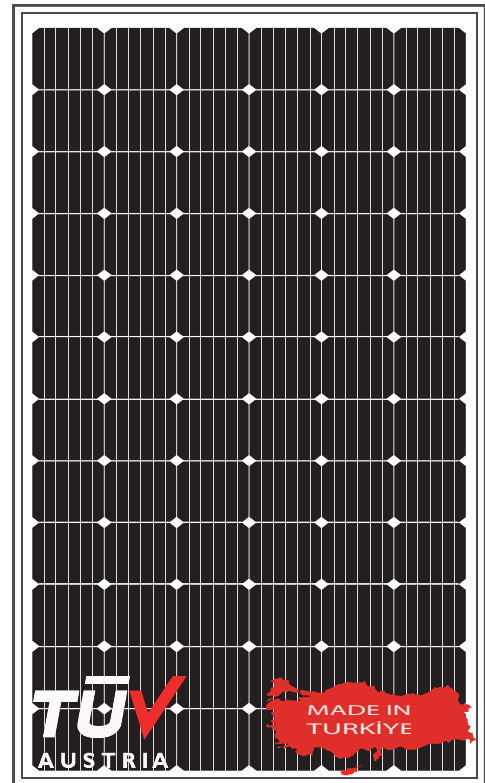
25 years power output warranty



Snail trail resistance



Design for 1500 VDC system voltage
Reduce the system BOS effectively



Harsh environment PV system installation



Excellent PID Performance

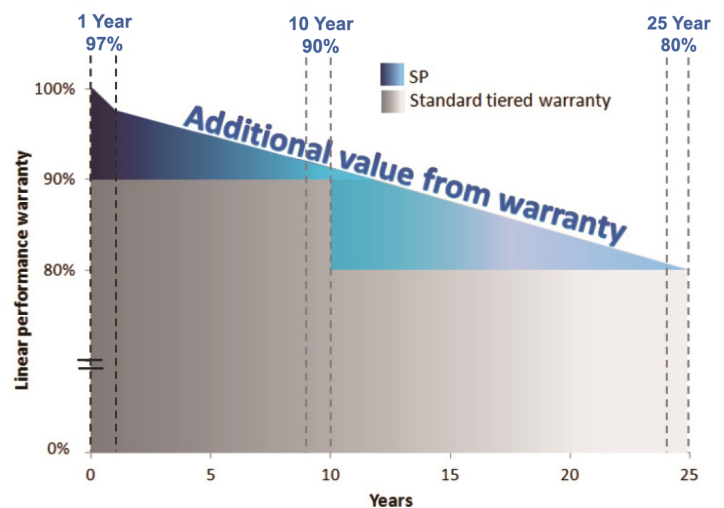
Reliability & Certification

Product Guarantee: 10-year

Linear Performance Warranty

- 1-year : 97% power output then
power degradation 0.8% per year
till 25th year

- 25-year : 80%



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Electrical Data

MODEL	SP-385M72	SP-390M72	SP-395M72
Maximum Rating Power (Pmax)	385 W	390 W	395 W
Module Efficiency	19.42%	19.67%	19.92%
Open Circuit Voltage (Voc)	47.66 V	47.88 V	47.95 V
Maximum Power Voltage (Vmpp)	40.32 V	40.75 V	41.11 V
Short Circuit Current (Isc)	9.945 A	9.979 A	10.03 A
Maximum Power Current (Impp)	9.555 A	9.594 A	9.62 A

MODEL	SP-400M72	SP-405M72	SP-410M72
Maximum Rating Power (Pmax)	400 W	405 W	410 W
Module Efficiency	20.17%	20.42%	20.67%
Open Circuit Voltage (Voc)	48.09 V	48.17 V	50.30 V
Maximum Power Voltage (Vmpp)	41.54 V	41.76 V	42.30V
Short Circuit Current (Isc)	10.12A	10.158 A	10.61 A
Maximum Power Current (Impp)	9.681 A	9.71 A	9.72 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

Mechanical Data

Item	Specification
Dimensions	1979 mm (L) ¹ x 1002 mm (W) ¹ x 40 mm (D) ¹ / 77.91" (L) x 39.45" (W) ¹ x 1.575" (D)
Weight	23.5 kg / 51.8 lbs
Solar Cell	72 monocrystalline 6" PERC 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 , 1000/1200 mm
Packaging Configuration	27 pcs per pallet, 648 pcs per 40' HQ container

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

Operating Conditions

Item	Specification
Maximum Front Loading	5400 Pa
Maximum System Voltage	1500VDC (IEC)
Series Fuse Rating	20A
Operating Temperature	-40 to 85°C

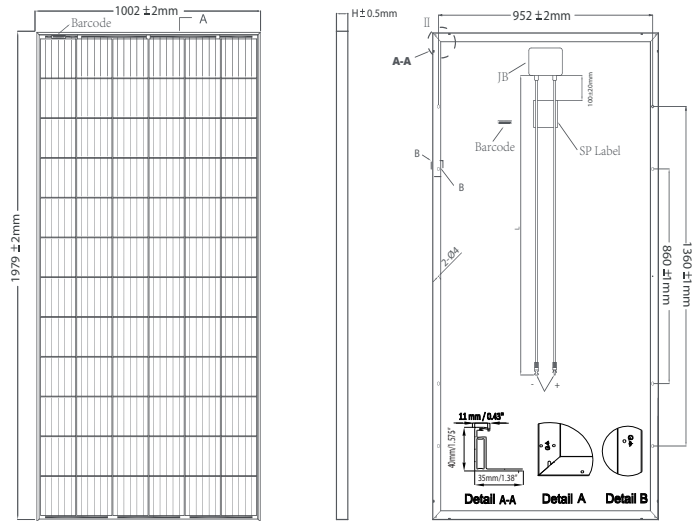
Temperature Characteristics

Item	Specification
Nominal Operating Cell Temperature	46 °C ± 2°C
Temperature Coefficient of Isc	0,048 % / °C
Temperature Coefficient of Voc	-0,280 % / °C
Temperature Coefficient of Pmax	-0,370 % / °

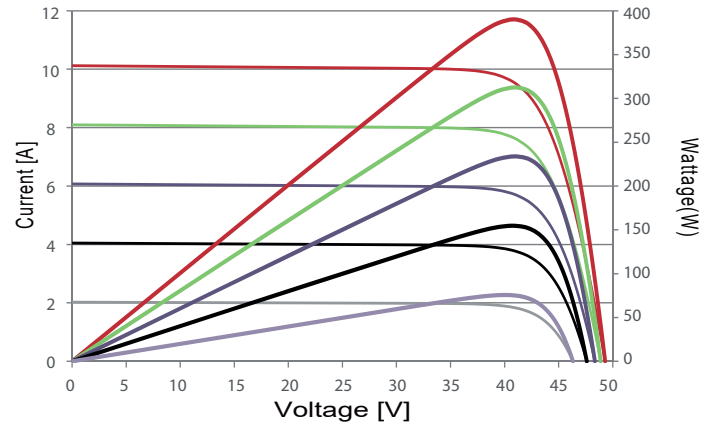
Certificates

TUV Austria Certification, CE, ISO 9001:2015, ISO 14001: 2015, OHSAS 18"001, FPC Factory Process Control certificate

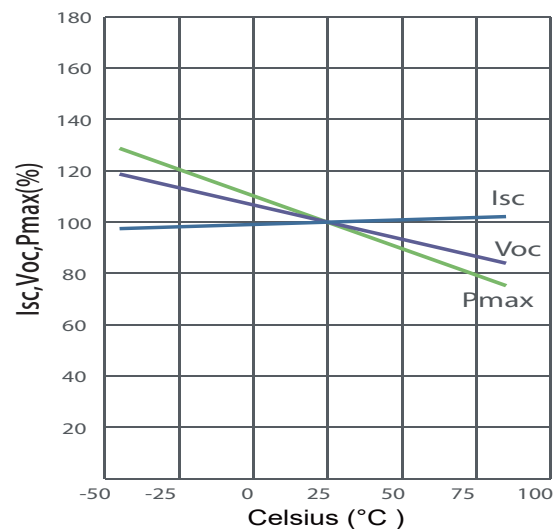
Front View & Back View



Dependence on Irradiance



Dependence on Temperature



* 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
 NOCT 44°C

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Factory

Adress:

Sales Department:

Fax:

E-Mail:

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