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Solar Panel Guide Specification Data Sheet

Simax (Suzhou) Green New Energy Co., Ltd.

SP672 280-320

SP672-285

Also available on the web at

EnergyPal.com/simax-suzhou-green-new-energy-co-ltd-solar-panels/sp672-285

Product Features



Positive tolerance
Guaranteed tolerance +3%
Reliable power output



High module efficiency
Module efficiency up to 16.5%
Cells efficiency up to 18.5%



Strong compressive strength
Certified to withstand high wind of 2400Pa
and snow loads of 5400Pa



High manufacture standards
certified to high standards by the
most reputable labs According to
IEC:61215: IEC:61730-1/2



International Management System
Manufactured and certified according
to ISO9001, Quality management system



Fire test approved
Application class A, Safety Class II, Fire Rating C



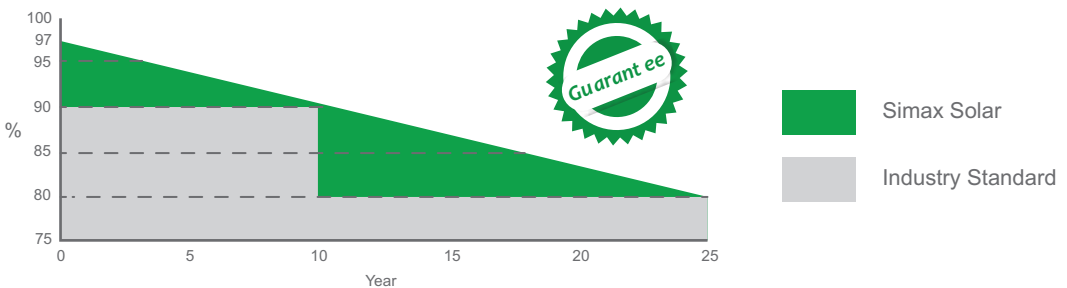
Excellent performance under extreme condition
High salt mist and ammonia resistance



Reliable quality forever
Without potential induced
degradation(PID-free)

Leading Warranty in PV Industry

- 25 year transferrable power output warranty: 10 years / 90%, 25 years / 80%
- Linear performance warranty from SIMAX Power
- 12 year material and workmanship warranty



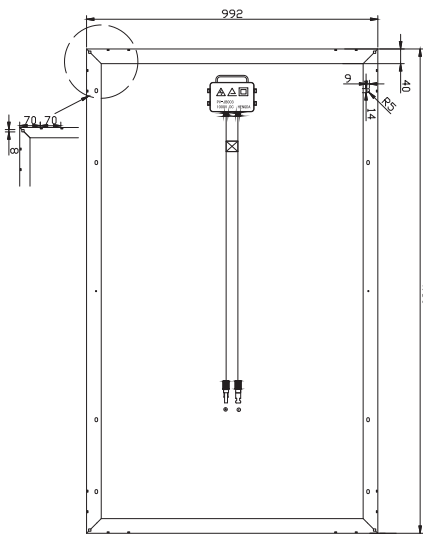
* Please refer to Simax Solar Product Warranty for details.

Electrical Characteristics

Parameters	SP672-280		SP672-285		SP672-290		SP672-295		SP672-300		SP672-305		SP672-310		SP672-315		SP672-320	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Peak power [Wp] P _{mpp}	280W	208W	285W	212W	290W	215W	295W	219W	300W	223W	305W	226W	310W	228W	315W	230W	320W	232W
Open circuit voltage [V] V _{oc}	44.4	44.7	44.6	45.0	44.6	45.3	44.8	45.5	45.0	45.8	45.2	45.8	45.4	45.6	45.8	46.0	46.0	46.2
Maximum Power Voltage [V] (V _{mpp})	35.8	37.2	36.0	37.4	36.0	37.4	36.2	37.8	36.3	38.0	36.5	38.0	36.7	38.0	36.8	38.1	37.0	38.1
Maximum Power Current [A] (I _{mpp})	7.82	5.59	7.92	5.65	8.06	5.76	8.15	5.79	8.26	5.87	8.36	5.95	8.44	6.00	8.56	6.04	8.65	6.09
Short circuit Current [A] (I _{sc})	8.70	5.94	8.78	5.99	8.82	6.06	8.86	6.12	8.93	6.25	8.99	6.89	9.10	7.21	9.17	7.36	9.27	7.50
Power Tolerance	0~+3%		0~+3%		0~+3%		0~+3%		0~+3%		0~+3%		0~+3%		0~+3%		0~+3%	
Module Efficiency (%)	14.5%		14.7%		14.9%		15.2%		15.5%		15.7%		16.0%		16.3%		16.5%	

STC: Irradiance : 1000 W/m² ; Spectrum AM 1.5; Cell temperature: 25°C; Wind 0 m/s
 NOCT: Irradiance: 800W/m² ; Spectrum AM 1.5; ambient temperature 20°C, wind speed 1 m/s

Mechanical Characteristics



Solar Cell	Polycrystalline silicon 156 x 156 (mm)
No. of Cells	72 (6 x 12)
Dimensions	1956 x 992 x 40 mm
Weight	22.5kg
Front Glass	3.2mm (0.13 inches) tempered glass
Frame	Anodized aluminum alloy

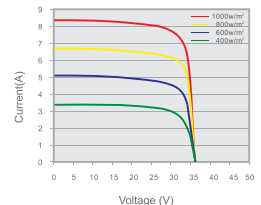
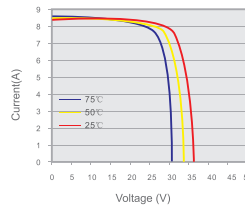
Output

Cable Type	Ø = 4 mm ²
Lengths	L = 900 mm
Junction Box	PV - JB003 MC4

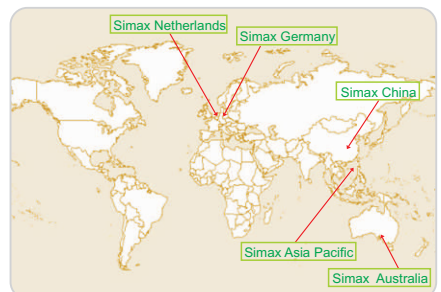
Temperature Coefficients

Nominal Operating Cell Temperature (NOCT)	45 ± 2°C
Temperature Coefficient of (P _{max})	-0.39% / °C
Temperature Coefficient of (V _{oc})	-0.34% / °C
Temperature Coefficient of (I _{sc})	0.035% / °C

- Provide the best solutions for photovoltaic power generation and technical support
- Provide Cost-effective products
- Provide 12 Years Quality Warranty
- Power out ≥ 90% in 10 years
- Power out ≥ 80% in 25 years



Global standby to ensure response within 24 hours
 Australia and Europe office were established to give better services to customers



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