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# **EnergyPal**

## **Solar Panel Guide Specification Data Sheet**

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

**SP660 250-270**

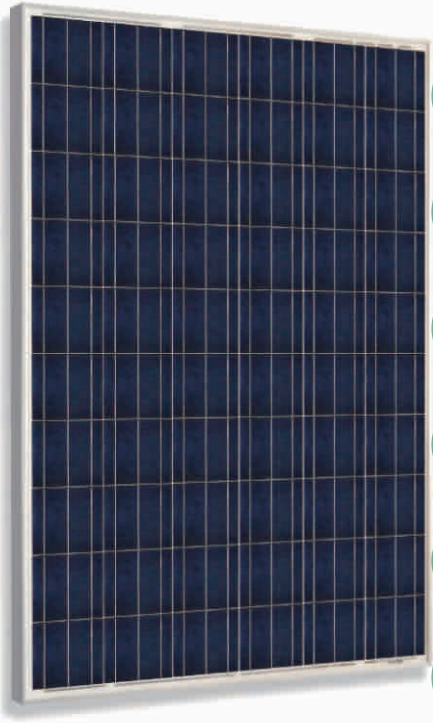
**SP660-270**

Also available on the web at

[EnergyPal.com/simax-suzhou-green-new-energy-co-ltd-solar-panels/sp660-270](http://EnergyPal.com/simax-suzhou-green-new-energy-co-ltd-solar-panels/sp660-270)



## Product Features



**Positive tolerance**  
Guaranteed tolerance +3%  
Reliable power output



**High module efficiency**  
Module efficiency up to 16.6%  
Cells efficiency up to 19.0%



**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



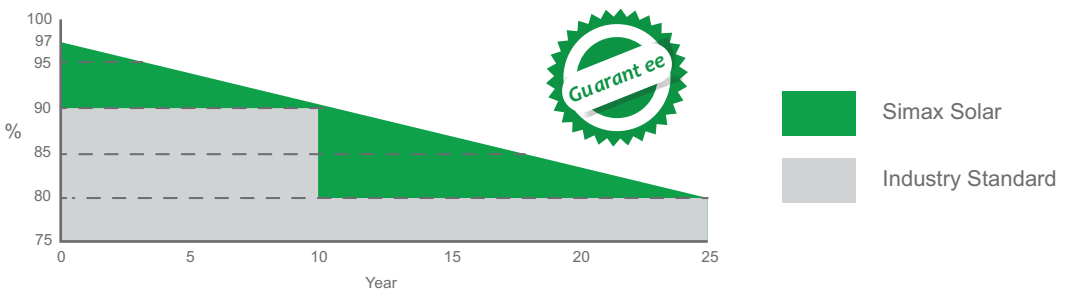
**Excellent performance under extreme condition**  
High salt mist and ammonia resistance



**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	SP660-250		SP660-255		SP660-260		SP660-265		SP660-270	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Peak power [Wp] P <sub>mpp</sub>	250W	182W	255W	193W	260W	197W	265W	201W	270W	206W
Open circuit voltage [V] V <sub>oc</sub>	37.8	34.4	38.0	34.8	38.5	35.0	37.8	35.1	38.0	34.7
Maximum Power Voltage [V] (V <sub>mpp</sub> )	30.5	27.3	30.5	27.4	31.0	27.5	30.8	27.6	31.0	27.7
Maximum Power Current [A] (I <sub>mpp</sub> )	8.20	6.52	8.36	7.06	8.39	7.16	8.6	7.29	8.71	7.44
Short circuit Current [A] (I <sub>sc</sub> )	8.85	6.97	8.94	7.4	9.11	7.54	9.24	7.54	9.33	7.6
Power Tolerance	0~+3%		0~+3%		0~+3%		0~+3%		0~+3%	
Module Efficiency (%)	15.5%		15.7%		16.0%		16.29%		16.60%	

STC: Irradiance : 1000 W/m<sup>2</sup> ; Spectrum AM 1.5; Cell temperature: 25°C; Wind 0 m/s  
 NOCT: Irradiance: 800W/m<sup>2</sup> ; Spectrum AM 1.5; ambient temperature 20°C, wind speed 1 m/s

**Mechanical Characteristics**

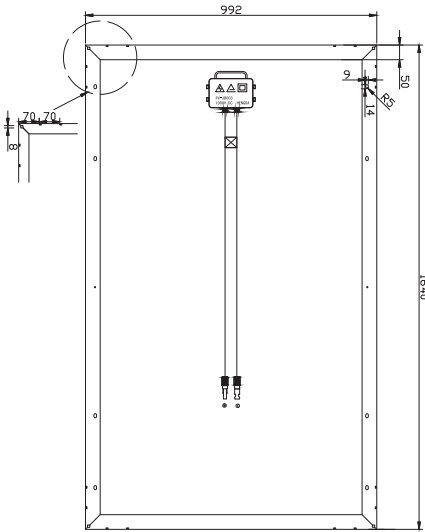
Solar Cell	Polycrystalline silicon 156 x 156 (mm)
No. of Cells	60 ( 6 x 10 )
Dimensions	1640 x 992 x 40 mm (Option 45 / 50 mm)
Weight	17.5 kg
Front Glass	3.2mm (0.13 inches) tempered glass
Frame	Anodized aluminum alloy

**Output**

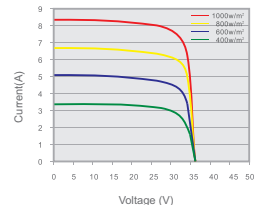
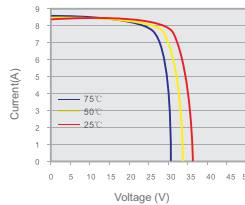
Cable Type	Ø = 4 mm <sup>2</sup>
Lengths	L = 900 mm
Junction Box	PV - JB003 MC4

**Temperature Coefficients**

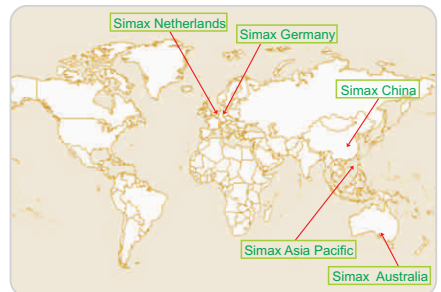
Nominal Operating Cell Temperature (NOCT)	45 ± 2°C
Temperature Coefficient of (P <sub>max</sub> )	-0.39% / °C
Temperature Coefficient of (V <sub>oc</sub> )	-0.34% / °C
Temperature Coefficient of (I <sub>sc</sub> )	0.035% / °C



- 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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