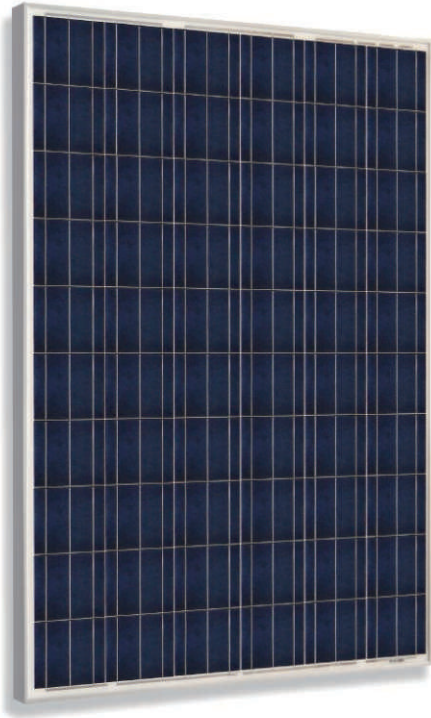


## Product Features



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



**High module efficiency**  
Module efficiency up to 15.5%  
Cells efficiency up to 17.8%



**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.



**Photon**

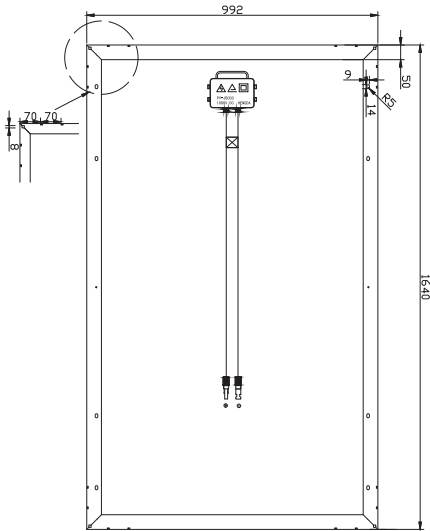


**Electrical Characteristics**

Parameters	SP660-230		SP660-235		SP660-240		SP660-245		SP660-250	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Peak power [Wp] P <sub>mpp</sub>	230W	163W	235W	163W	240W	170W	245W	176W	250W	182W
Open circuit voltage [V] V <sub>oc</sub>	36.6	34.0	37.2	34.1	37.2	34.2	37.2	34.3	37.8	34.4
Maximum Power Voltage [V] (V <sub>mpp</sub> )	29.5	27.0	30.0	27.1	30.0	27.1	30.0	27.2	30.5	27.3
Maximum Power Current [A] (I <sub>mpp</sub> )	7.80	6.04	7.83	6.17	8.00	6.28	8.17	6.41	8.20	6.52
Short circuit Current [A] (I <sub>sc</sub> )	8.42	6.47	8.46	6.59	8.65	6.71	8.74	6.83	8.85	6.97
Power Tolerance	0~+3%		0~+3%		0~+3%		0~+3%		0~+3%	
Module Efficiency (%)	14.3%		14.5%		14.8%		15.2%		15.5%	

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

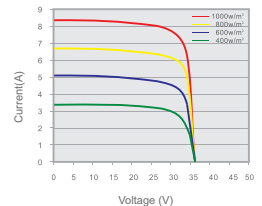
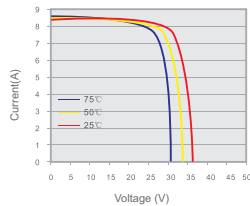
**Output**

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



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