

Product Features





Positive tolerance

Guaranteed tolerance +3% Reliable power output



High module efficiency Module efficiency up to 16.1% Cells efficiency up to 18.7%

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.



















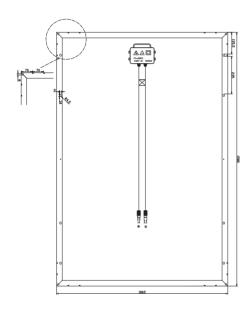




Electrical Characteristics

Parameters	SM596-245	SM596-250	SM596-255	SM596-260	SM596-265	SM596-270
Peak power [Wp] Pmpp	245W	250W	255W	260W	265W	270W
Power Tolerance	0~+3%	0~+3%	0~+3%	0~+3%	0~+3%	0~+3%
Module Efficiency (%)	14.7%	15.0%	15.3%	15.5%	15.7%	16.1%
Open circuit voltage [V] Voc	59.2	59.8	59.8	60.1	60.5	60.7
Maximum Power Voltage [V] (V _{mpp})	48.5	49.0	49.0	49.1	49.1	49.3
Maximum Power Current [A] (Impp)	5.05	5.10	5.20	5.30	5.39	5.47
Short circuit Current [A] (Isc)	5.45	5.51	5.62	5.72	5.85	5.91

STC: Irradiance: 1000 W/m²; Spectrum AM 1,5; Cell temperature: 25°C; Wind 0 m/s



Mechanical Characteristics

Solar Cell	Monocrystalline silicon 125 x 125 (mm)		
No. of Cells	96 (8 x 12)		
Dimensions	1580 x 1065 x 50 mm (Option 35 / 40 mm)		
Weight	20.2 kg		
Front Glass	3.2mm (0.13 inches) tempered glass		
Frame	Anodized aluminum alloy		

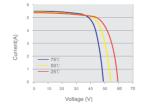
Output

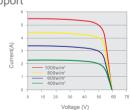
Cable Type	Ø= 4 mm ²
Lengths	L = 1400 mm
Junction Box	PV - JB003 MC4

Temperature Coefficients

Nominal Operating Cell Temperature (NOCT)	45 ± 2°C
Temperature Coefficient of (Pmax)	-0.39% / °C
Temperature Coefficient of (Voc)	-0.34% / °C
Temperature Coefficient of (Isc)	0.052% / °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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