

Product Features



Positive tolerance
Guaranteed tolerance +3%
Reliable power output



High module efficiency
Module efficiency up to 15.5%
Cells efficiency up to 18%



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



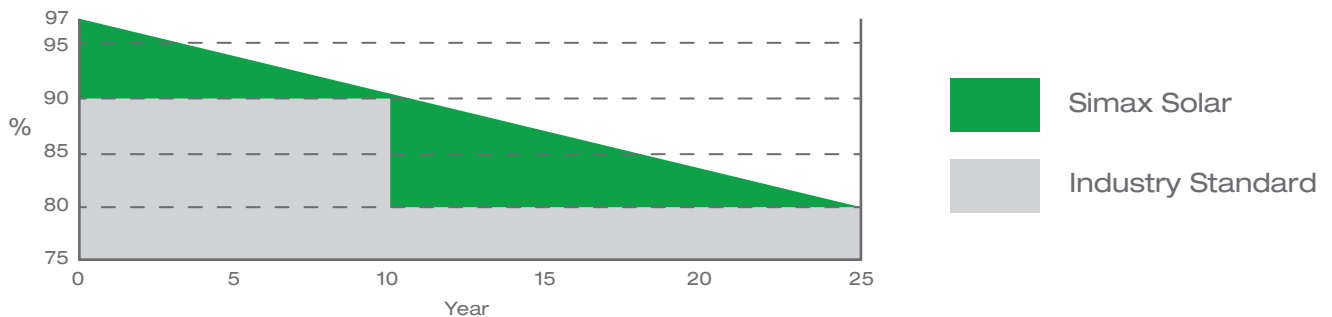
High manufacture standards
certified to high standards by the
most reputable labs According to
IEC:61215: IEC:61730-1/2



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

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



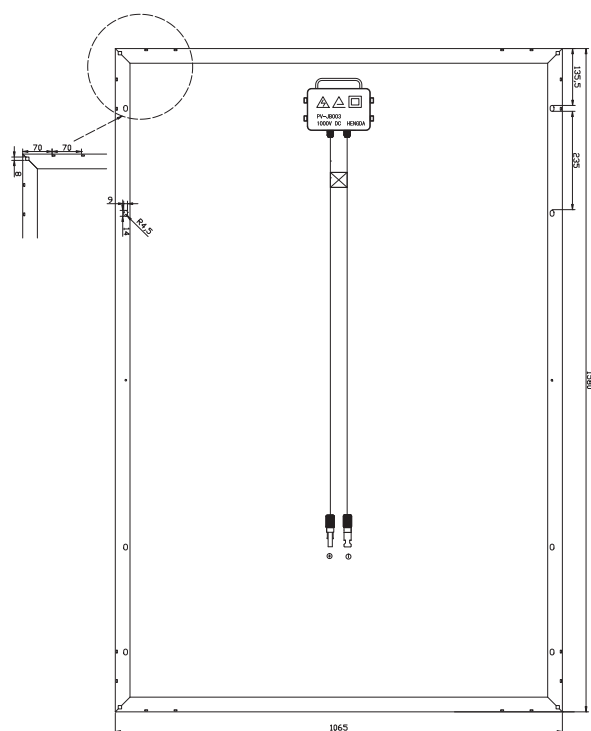
* Please refer to Simax Solar Product Warranty for details.



Electrical Characteristics

Parameters	SM596-245	SM596-250	SM596-255	SM596-260
Peak power [Wp] P_{mpp}	245W	250W	255W	260W
Power Tolerance	0~+3%	0~+3%	0~+3%	0~+3%
Module Efficiency (%)	14.7%	15.0%	15.3%	15.5%
Open circuit voltage [V] V_{oc}	59.2	59.8	59.8	60.1
Maximum Power Voltage [V] (V_{mpp})	48.5	49.0	49.0	49.1
Maximum Power Current [A] (I_{mpp})	5.05	5.10	5.20	5.30
Short circuit Current [A] (I_{sc})	5.45	5.51	5.62	5.72

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

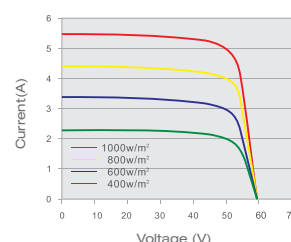
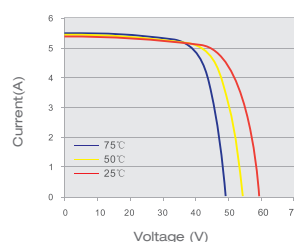
Output

Cable Type	$\varnothing = 4 \text{ mm}^2$
Lengths	L = 1400 mm
Junction Box	PV - JB003 MC4

Temperature Coefficients

Nominal Operating Cell Temperature (NOCT)	$45 \pm 2^\circ\text{C}$
Temperature Coefficient of (P_{max})	$-0.39\% / ^\circ\text{C}$
Temperature Coefficient of (V_{oc})	$-0.34\% / ^\circ\text{C}$
Temperature Coefficient of (I_{sc})	$0.052\% / ^\circ\text{C}$

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



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