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Solar Panel Guide Specification Data Sheet

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

SM596-245-270

SM596-245

Also available on the web at

EnergyPal.com/simax-suzhou-green-new-energy-co-ltd-solar-panels/sm596-245



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



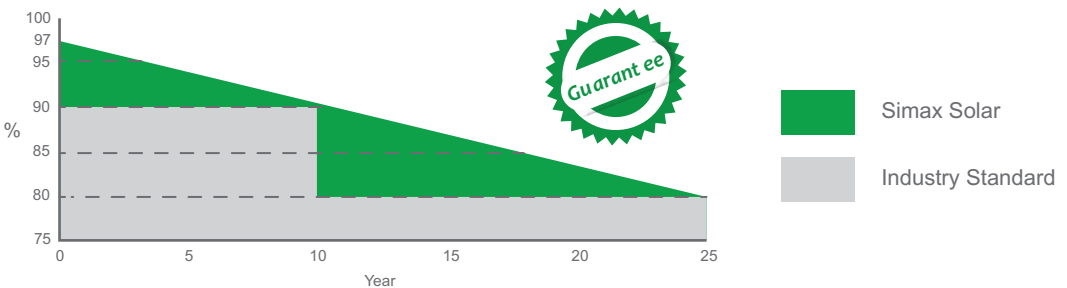
Excellent performance under extreme condition
High salt mist and ammonia resistance



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] P_{mpp}	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] V_{oc}	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] (I_{mpp})	5.05	5.10	5.20	5.30	5.39	5.47
Short circuit Current [A] (I_{sc})	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

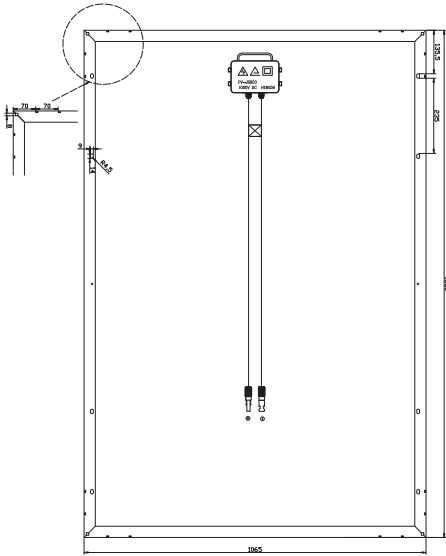
Solar Cell	Monocrystalline silicon 125 x 125 (mm)
No. of Cells	96 (8 x 12)
Dimensions	1580 x 1065 x 50 mm (Option 35 / 40 mm)
Weight	20.2 kg
Front Glass	3.2mm (0.13 inches) tempered glass
Frame	Anodized aluminum alloy

Output

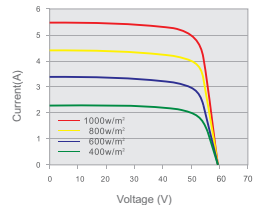
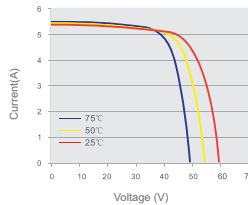
Cable Type	Ø = 4 mm ²
Lengths	L = 1400 mm
Junction Box	PV - JB003 MC4

Temperature Coefficients

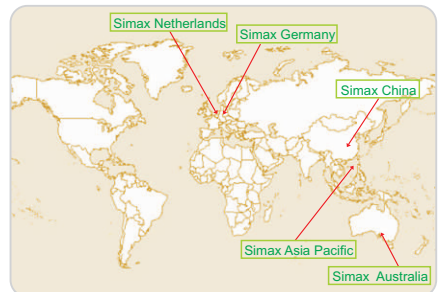
Nominal Operating Cell Temperature (NOCT)	45 ± 2°C
Temperature Coefficient of (P_{max})	-0.39% / °C
Temperature Coefficient of (V_{oc})	-0.34% / °C
Temperature Coefficient of (I_{sc})	0.052% / °C



- 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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