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# **EnergyPal**

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

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

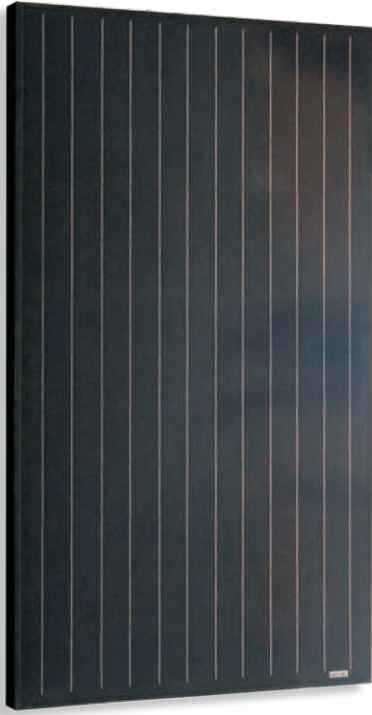
**SM572 Black 190-210**

**SM572-190**

Also available on the web at

[EnergyPal.com/simax-suzhou-green-new-energy-co-ltd-solar-panels/sm572-190](http://EnergyPal.com/simax-suzhou-green-new-energy-co-ltd-solar-panels/sm572-190)

## Product Features



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



**High module efficiency**  
Module efficiency up to 15.7%  
Cells efficiency up to 18.5%



**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



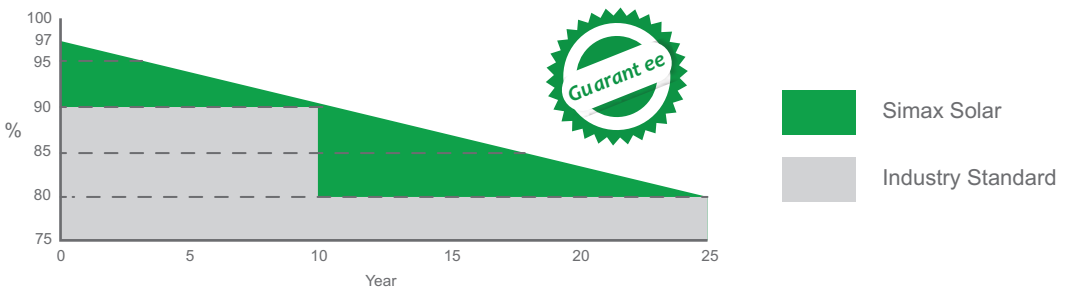
**Excellent performance under extreme condition**  
High salt mist and ammonia resistance



**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

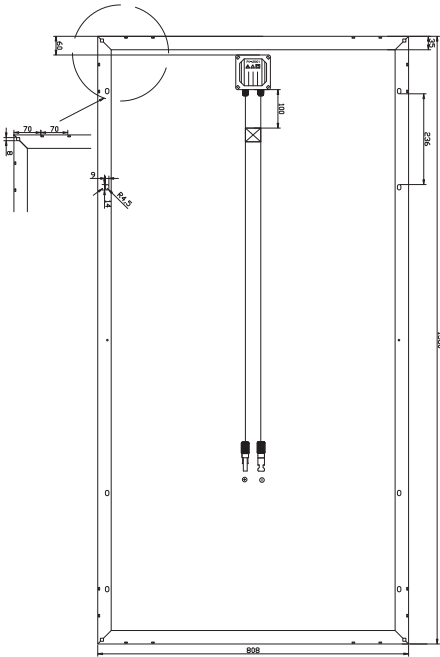


\* Please refer to Simax Solar Product Warranty for details.

### Electrical Characteristics

Parameters	SM572-190		SM572-195		SM572-200		SM572-205		SM572-210	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Peak power [Wp] $P_{mpp}$	190W	139W	195W	144W	200W	148W	205W	151W	210W	154W
Open circuit voltage [V] $V_{oc}$	44.5	41.8	44.5	42.0	45.1	42.1	45.3	42.3	45.5	42.4
Maximum Power Voltage [V] ( $V_{mpp}$ )	36.5	33.1	36.5	33.5	37.0	33.3	37.2	33.6	37.5	33.7
Maximum Power Current [A] ( $I_{mpp}$ )	5.21	4.17	5.34	4.29	5.41	4.38	5.53	4.46	5.61	4.56
Short circuit Current [A] ( $I_{sc}$ )	5.52	4.45	5.77	4.62	5.88	4.68	6.05	5.07	6.07	5.08
Power Tolerance	0~+3%		0~+3%		0~+3%		0~+3%		0~+3%	
Module Efficiency (%)	15.1%		15.3%		15.7%		16.1%		16.5%	

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	Monocrystalline silicon 125 x 125 (mm)
No. of Cells	72 ( 6 x 12 )
Dimensions	1580 x 808 x 35 mm (Option 45 / 50 mm)
Weight	13.5 kg
Front Glass	3.2mm (0.13 inches) tempered glass
Frame	Anodized aluminum alloy

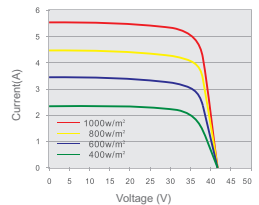
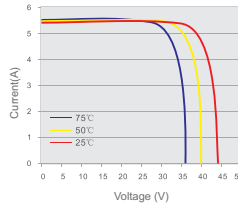
### Output

Cable Type	Ø = 4 mm <sup>2</sup>
Lengths	L = 900 mm
Junction Box	PV - JB001 MC4

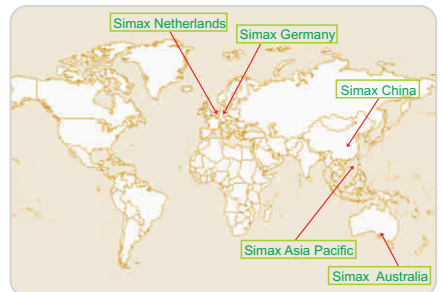
### Temperature Coefficients

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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