MONO

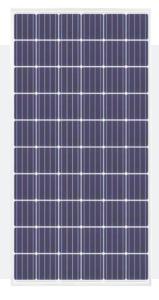


Powerguard Insurance Global Coverage

The power output shall not be less than 96.5% of the minimum power output stated in the product data sheet in the first year of the product's life cycle. The loss of power output shall not exceed 0.68% per year thereafter, ending with 80.18% in the 25th year.







CSUN310-60M

The Large Scale Project Solution

CSUN310-60M CSUN305-60M CSUN300-60M CSUN295-60M CSUN290-60M

19.09%

Module efficiency

310W

Highest power output

10 years

Material & Workmanship warranty

25 years
Linear power output warranty



World class mono efficiency



Tighter porduct performance distribution and current sorting reduces the mismatch power loss in system operation



Positive tolerance offer



Good temperature coefficient enables higher output in high temperature regions



Excellent performance under low light conditions



Load certificates: wind to 2400Pa and snow to 5400Pa

- China Sunergy Co., Ltd. designs, manufactures and delivers high efficient solar cells and modules to the world from its production centers based in China, Turkey, South Korea and Vietnam.
- Founded in 2004, China Sunergy is well known for its advanced solar cell technology reliable product quality and excellent customer service.
- As one of leading PV enterprises, China Sunergy has delivered more than 4.0GW of solar products to residential, commercial, utility and off-grid projects all around the word.

Note:

All specifications, warranties, certifications about module of "CSUN" series also apply to that of "SST".

All information and data are subject to change without notice.

Right 2017



Electrical characteristics at Standard Test Conditions(STC)

Module Type	CSUN310-60M	CSUN305-60M	CSUN300-60M	CSUN295-60M	CSUN290-60M
Maximum Power - Pmax (W)	310	305	300	295	290
Open Circuit Voltage - Voc (V)	40.0	39.9	39.8	39.6	39.5
Short Circuit Current - Isc (A)	9.81	9.72	9.6	9.54	9.47
Maximum Power Voltage - Vmpp (V)	32.6	32.4	32.2	32	31.9
Maximum Power Current - Impp (A)	9.52	9.42	9.31	9.22	9.1
Module Efficiency	19.09	18.78%	18.48%	18.17%	17.86%

Standard Test Conditions (STC): irradiance 1,000 W/m²; AM 1,5; module temperature 25°C. Tolerance of Pmpp: 0~+3%.

Measuring uncertainty of power. ±3%. Certified in accordance with IEC 61215, IEC 61730-1/2 and UL 1703.

Electrical Characteristics at Normal Operating Cell Temperature(NOCT)

		-	_		
Module Type	CSUN310-60M	CSUN305-60M	CSUN300-60M	CSUN295-60M	CSUN290-60M
Maximum Power - Pmax (W)	233	229	225	220	216
Open Circuit Voltage - Voc (V)	37.5	37.4	37.3	37	36.9
Short Circuit Current - Isc (A)	7.95	7.84	7.74	7.69	7.64
Maximum Power Voltage - Vmpp (V)	31.3	31.1	30.9	30.6	30.3
Maximum Power Current - Impp (A)	7.47	7.38	7.28	7.22	7.14

Normal Operating Cell Temperature (NOCT): irradiance 800W/m²; wind speed 1 m/s; cell temperature 45°C; ambient temperature 20°C.

Measuring uncertainty of power: ±3%. Certified in accordance with IEC 61215, IEC 61730-1/2 and UL 1703.

Temperature Characteristics

Maximum Ratings

NOTC	45°C (±2°C)	Maximum System Voltage [V]	1000
Voltage Temperature Coefficient	-0.29%/K	Series Fuse Rating [A]	15
Current Temperature Coefficient	+0.05%/K		
Power Temperature Coefficient	-0.39%/K		

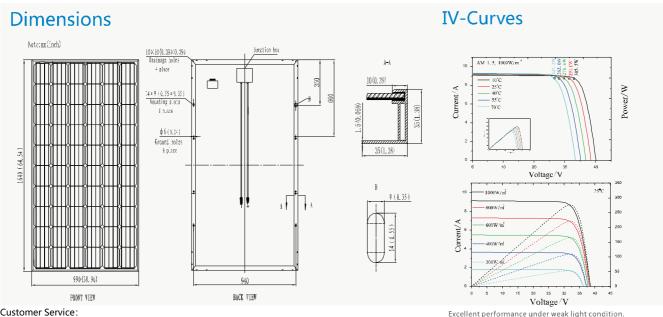
Material Characteristics

Dimensions	1640×990×35mm (L×W×H)		
Weight	18.3kg		
Frame	Anodized aluminum profile		
Front Glass	White toughened safety glass, 3.2 mm		
Cell Encapsulation	EVA (Ethylene-Vinyl-Acetate)		
Back Sheet	Composite film		
Cells	6×10 pieces monocrystalline solar cells series strings (156mm×156mm)		
Junction Box	Rated current≥13A, IP≥67, TUV&UL		
Cable&Connector	Length 900 mm, 1×4 mm ² , Model Number: PV-GZX156Q		

Packaging

System Design

Dimensions(L×W×H)	1690×1120×112mm	Temperature Range	-40 °C to + 85 °C
Container20'	360	Withstanding Hail	Maximum diameter of 25 mm with
Container40'	840		impact speed of 23 m·s ⁻¹
Container40'HC	910 Maximum Sur		5,400 Pa
		Application class	class A
		Safety class	class II



CSUN Customer Service : Tel:+8625 5276 6666 Ext 6403 Email: Australia@chinasunergy.com