

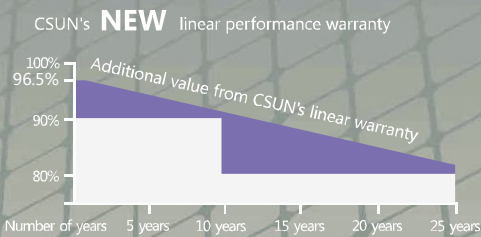
# MONO



## 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.

■ CSUN ■ Standard Warranty



## CSUN305-60M

The Large Scale Project Solution

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

### 18.78%

Module efficiency

### 305W

Highest power output

### 10years

Material & Workmanship warranty

### 25years

Liner power output warranty



PID-free



World class mono efficiency



Tighter product 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



Certified for salt/ammonia corrosion resistance



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 world.

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

Standard Test Conditions (STC): irradiance 1,000 W/m<sup>2</sup>; AM 1.5; module temperature 25°C. Tolerance of Pmp: 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	CSUN305-60M	CSUN300-60M	CSUN295-60M	CSUN290-60M
Maximum Power - Pmax (W)	229	225	220	216
Open Circuit Voltage - Voc (V)	37.4	37.3	37	36.9
Short Circuit Current - Isc (A)	7.84	7.74	7.69	7.64
Maximum Power Voltage - Vmpp (V)	31.1	30.9	30.6	30.3
Maximum Power Current - Imp (A)	7.38	7.28	7.22	7.14

Normal Operating Cell Temperature( NOCT) : irradiance 800W/m<sup>2</sup>; 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

NOTC	45°C ( ±2°C )	Maximum System Voltage [V]	1000
Voltage Temperature Coefficient	-0.29%/K	Series Fuse Rating [A]	20
Current Temperature Coefficient	+0.05%/K		
Power Temperature Coefficient	-0.39%/K		

## Maximum Ratings

## Material Characteristics

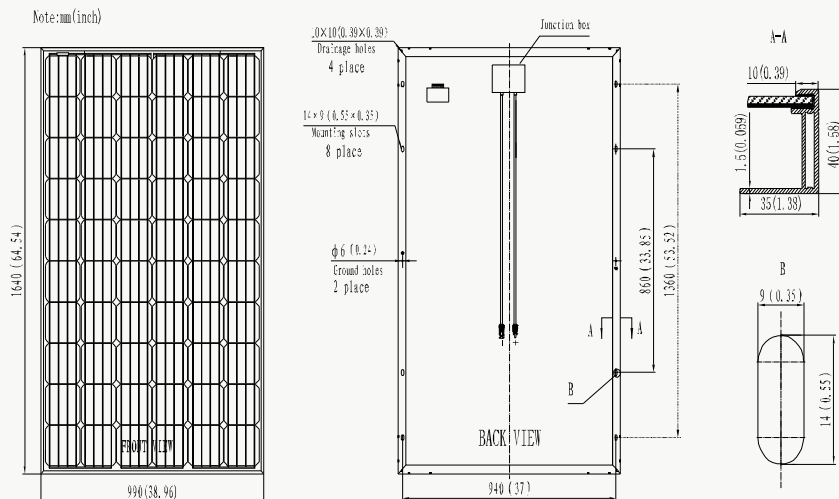
Dimensions	1640×990×40mm (L×W×H)
Weight	18.6kg
Frame	Anodized aluminum profile
Front Glass	White toughened safety glass, 3.2 mm
Cell Encapsulation	EVA (Ethylene-Vinyl-Acetate)
Back Sheet	Composite film
Cells	6×10 pieces monocrystalline solar cells series strings (156mm×156mm)
Junction Box	Rated current≥13A, IP≥67, TUV&UL
Cable&Connector	Length 900 mm, 1×4 mm <sup>2</sup> , compatible film

## Packaging

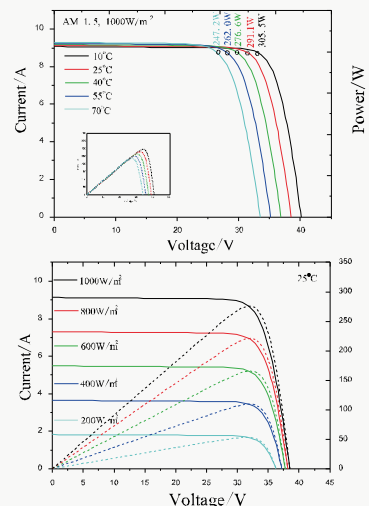
Dimensions(L×W×H)	1690×1120×112mm	Temperature Range	-40 °C to + 85 °C
Container20'	312	Withstanding Hail	Maximum diameter
Container40'	728	Maximum Surface	5,400 Pa
Container40'HC	798	Application class	class A
		Safety class	class II

## System Design

## Dimensions



## IV-Curves



Excellent performance under weak light condition.