MONO

PowerGuard
SPECIALTY INSURANCE SERVICES

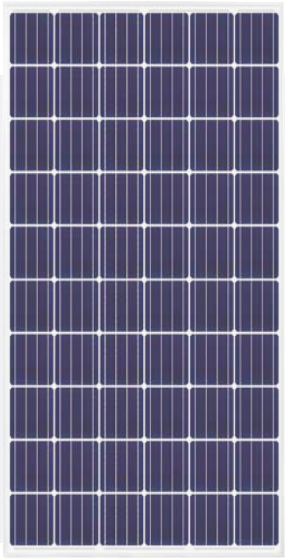
Powerguard Insurance Global Coverage

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

CSUN's **NEW** linear performance warranty

CSUN
energy for today



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
Linear power output warranty

- PID-free
- 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
- 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 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

www.csun-solar.com

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 - Impp (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/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	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 - Impp (A)	7.38	7.28	7.22	7.14

Normal Operating Cell Temperature((NOCT) : irradiance 800W/m^2; 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

NOCT	45°C (±2°C)
Voltage Temperature Coefficient	-0.29%/K
Current Temperature Coefficient	+0.05%/K
Power Temperature Coefficient	-0.39%/K

Maximum Ratings

Maximum System Voltage [V]	1000
Series Fuse Rating [A]	20

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 (156.75mm×156.75mm)
Junction Box	Rated current≧13A, IP≧67, TUV&UL
Cable&Connector	Length 900 mm, 1×4 mm^2, compatible with MC4

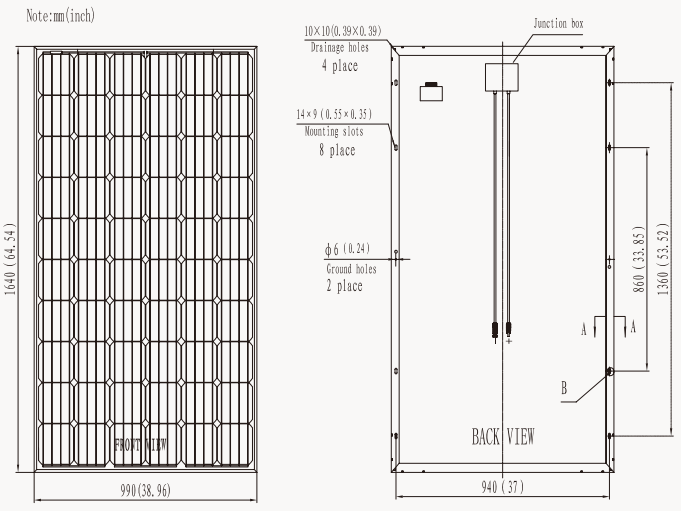
Packaging

Dimensions(LÔWÔH)	1690×1120×112mm
Container20'	312
Container40'	728
Container40'HC	798

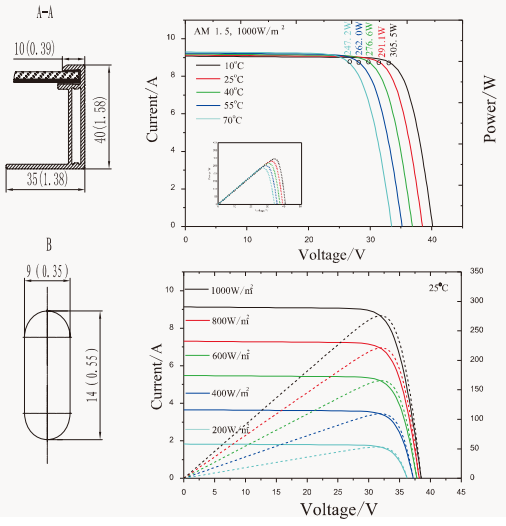
System Design

Temperature Range	-40 °C to + 85 °C
Withstanding Hail	Maximum diameter of 25 mm with impact speed of 23 m·s^{-1}
Maximum Surface Load	5,400 Pa
Application class	class A
Safety class	class Ⅱ

Dimensions



IV-Curves



Excellent performance under weak light condition.