

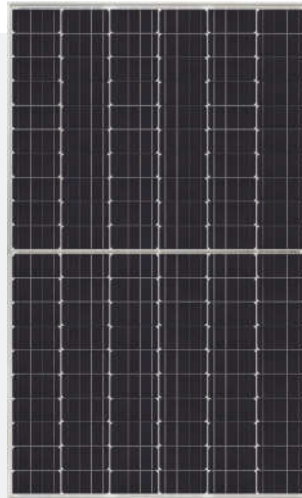
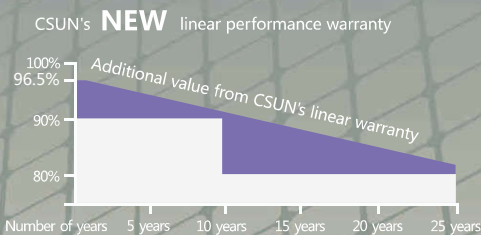
MONO



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



CSUN320-120M

High efficiency PERC technology
for esthetic applications

CSUN320-120M CSUN315-120M
CSUN310-120M CSUN305-120M

19.24%
Module efficiency

320W
Highest power output

10 years
Material & Workmanship warranty

25 years
Linear 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	CSUN320-120M	CSUN315-120M	CSUN310-120M	CSUN305-120M
Maximum Power - Pmax (W)	320	315	310	305
Open Circuit Voltage - Voc (V)	40.2	39.9	39.6	39.3
Short Circuit Current - Isc (A)	10.17	10.08	9.98	9.89
Maximum Power Voltage - Vmpp (V)	33.3	33.1	32.8	32.5
Maximum Power Current - Imp (A)	9.61	9.52	9.46	9.39
Module Efficiency	19.24%	18.94%	18.64%	18.34%

Standard Test Conditions (STC): irradiance 1,000 W/m²; 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	CSUN320-120M	CSUN315-120M	CSUN310-120M	CSUN305-120M
Maximum Power - Pmax (W)	236	235	228	225
Open Circuit Voltage - Voc (V)	37.2	36.9	36.6	36.3
Short Circuit Current - Isc (A)	8.22	8.15	8.07	7.99
Maximum Power Voltage - Vmpp (V)	30.6	30.6	30.2	30
Maximum Power Current - Imp (A)	7.72	7.67	7.56	7.48

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

NOCT	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	1680×990×35mm (L×W×H)
Weight	18.7kg
Frame	Anodized aluminum profile
Front Glass	White toughened safety glass, 3.2 mm
Cell Encapsulation	EVA (Ethylene-Vinyl-Acetate)
Back Sheet	Composite film
Cells	12×10 pieces monocrystalline solar cells series strings (156.75mm×78.375mm)
Junction Box	Rated current≥13A, IP≥67, TUV&UL
Cable&Connector	Length 500 mm, 1×4 mm ² , compatible with MC4

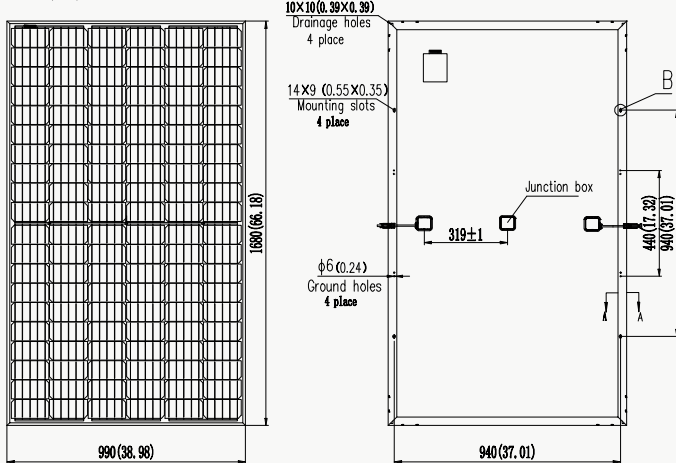
Packaging

Dimensions(L×W×H)	1720×1110×1120mm	Temperature Range	-40 °C to + 85 °C
Container20'	360	Withstanding Hail	Maximum diameter of 25 mm with impact speed of 23 ms-1
Container40'	780	Maximum Surface Load	5,400 Pa
Container40'HC	845	Application class	class A
		Safety class	class II

System Design

Dimensions

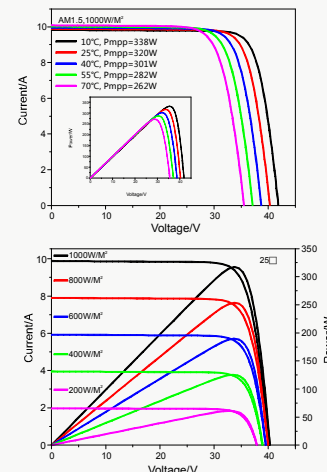
Note: mm (inch)



FRONT VIEW

BACK VIEW

IV-Curves



Excellent performance under weak light condition.