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.







CSUN320-60M-BW

The Large Scale Project Solution

CSUN320-60M-BW CSUN315-60M-BW CSUN310-60M-BW CSUN305-60M-BW CSUN300-60M-BW

19.71%

Module efficiency

320W

Highest power output

12_{years}

Material & Workmanship warranty

25 years
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



Electrical characteristics at Standard Test Conditions(STC)

Module Type	CSUN320-60M-BW	CSUN315-60M-BW	CSUN310-60M-BW	CSUN305-60M-BW	CSUN300-60M-BW
Maximum Power - Pmax (W)	320	315	310	305	300
Open Circuit Voltage - Voc (V)	40.4	40.2	40.1	39.9	39.8
Short Circuit Current - Isc (A)	10.03	9.95	9.87	9.72	9.6
Maximum Power Voltage - Vmpp (V)	33	32.8	32.6	32.4	32.2
Maximum Power Current - Impp (A)	9.7	9.61	9.52	9.42	9.31
Module Efficiency	19.71%	19.40%	19.09%	18.79%	18.48%

Standard Test Conditions (STC): irradiance 1,000 W/m²; AM 1,5; Cell temperature 25°C. Pmax Sorting: 0~5W. Measuring Tolerance: ±3%. Remark: Electrical data do not refer to a single module and they are not part of the offer. They only serve for comparison among different module types.

Electrical Characteristics at Normal Operating Cell Temperature(NOCT)

Module Type	CSUN320-60M-BW	CSUN315-60M-BW	CSUN310-60M-BW	CSUN305-60M-BW	CSUN300-60M-BW
Maximum Power - Pmax (W)	237.4	233.7	230.3	226.8	223
Open Circuit Voltage - Voc (V)	37.3	37.2	37.1	36.9	36.8
Short Circuit Current - Isc (A)	8.1	8.04	7.98	7.86	7.76
Maximum Power Voltage - Vmpp (V)	31	30.8	30.6	30.5	30.4
Maximum Power Current - Impp (A)	7.66	7.59	7.52	7.42	7.33

Normal Operating Cell Temperature ((NOCT): irradiance 800W/m2; wind speed 1 m/s, ambient temperature 20°C. Measuring Tolerance: ±3%.

Temperature Characteristics

Maximum Ratings

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		

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 (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

System Design

Dimensions(L×W×H)	1680×1120×1120mm	Temperature Range -40 °C to + 85 °C
Container20'	360	Withstanding Hail Maximum diameter of 25 mm with impact
Container40'	840	speed of 23 m·s ⁻¹
Container40'HC	910	Maximum Surface Load 5,400 Pa
		Application class class A
		Safety class II

