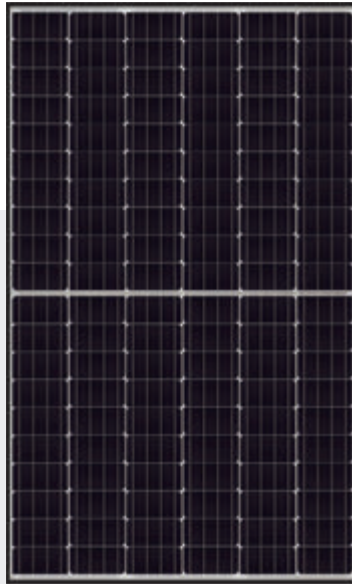
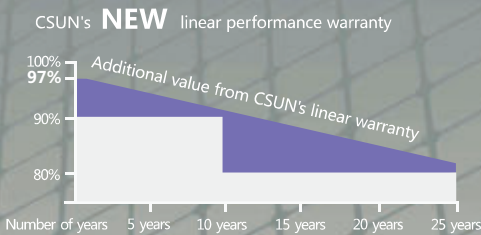


MONO

Munich RE 

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



CSUN335-120M

The Half Cell Module - 5BB/MBB

CSUN335-120M CSUN330-120M CSUN325-120M
CSUN320-120M CSUN315-120M CSUN310-120M

19.83%

Module efficiency

335W

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 efficiency solar cells and modules to the world from its production centers based in China, USA 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 8.0GW of solar products to residential, commercial, utility and off-grid projects all around the world.

All information and data are subject to change without notice.



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Electrical characteristics at Standard Test Conditions(STC)

Module Type	CSUN335-120M	CSUN330-120M	CSUN325-120M	CSUN320-120M	CSUN315-120M	CSUN310-120M
Maximum Power - Pmax (W)	335	330	325	320	315	310
Open Circuit Voltage - Voc (V)	41.0	40.7	40.4	40.2	39.9	39.6
Short Circuit Current - Isc (A)	10.47	10.38	10.28	10.17	10.08	9.98
Maximum Power Voltage - Vmpp (V)	34.0	33.8	33.5	33.3	33.1	32.8
Maximum Power Current - Impp (A)	9.90	9.80	9.71	9.61	9.52	9.46
Module Efficiency	19.83%	19.53%	19.24%	18.94%	18.65%	18.35%

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	CSUN335-120M	CSUN330-120M	CSUN325-120M	CSUN320-120M	CSUN315-120M	CSUN310-120M
Maximum Power - Pmax (W)	247.4	243.7	240	236.3	234.7	228.4
Open Circuit Voltage - Voc (V)	37.3	37.5	37.3	37.2	36.9	36.6
Short Circuit Current - Isc (A)	8.31	8.39	8.31	8.22	8.15	8.07
Maximum Power Voltage - Vmpp (V)	31.2	31.0	30.8	30.6	30.4	30.2
Maximum Power Current - Impp (A)	7.93	7.86	7.81	7.72	7.67	7.56

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

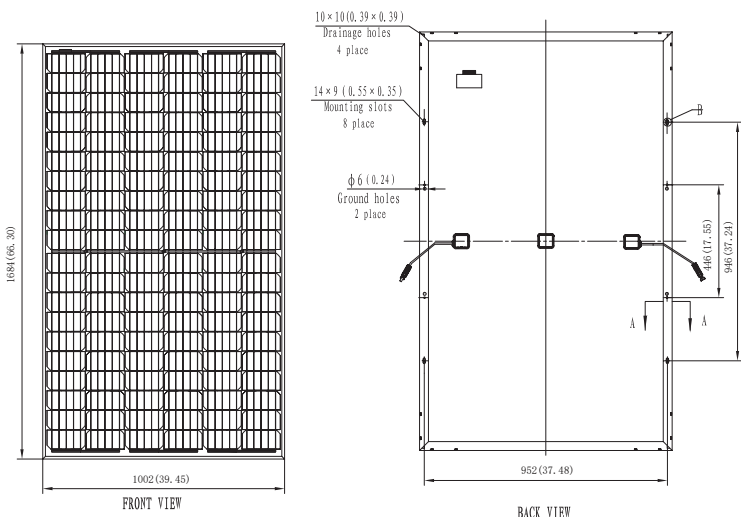
Dimensions	1684×1002×35mm (L×W×H)
Weight	18.7kg
Frame	Anodized aluminum profile
Front Glass	White toughened safety glass, 3.2 mm
Cell Encapsulation	EVA (Ethylene-Vinyl-Acetate)
Back Sheet	Composite film
Cells	12×10 pieces monocrystalline solar cells series strings (158.75mm×79.375mm)
Junction Box	Rated current≥13A, IP≥67, TUV&UL
Cable&Connector	Length:positive 400mm;negative 300mm, 1×4 mm ² , compatible with MC4

Packaging

Dimensions	1720×1100×121mm	Temperature Range	-40 °C to + 85 °C
Container20'	360	Withstanding Hail	Maximum diameter of 25 mm with impact speed of 23 m/s
Container40'	780	Maximum Surface Load	5,400 Pa
Container40'HC	845	Application class	class A
		Safety class	class II

System Design

Dimensions



IV-Curves

