

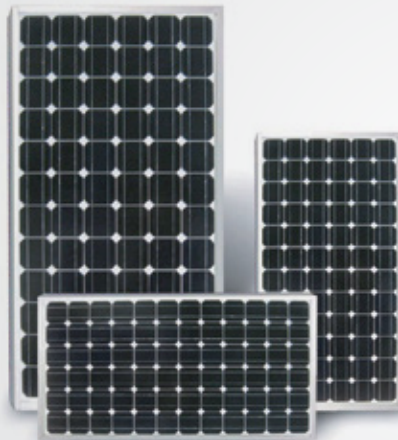
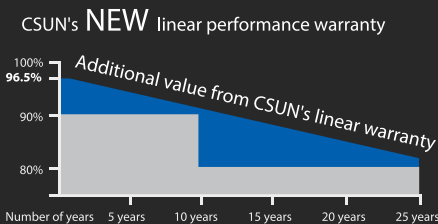
Mono



Powerguard insurance global coverage

Within the first year, the output power shall not be less than 96.5% of the minimum output power in CSUN's product datasheet, thereafter the loss of output power shall not exceed 0.68% per year, ending with 80.18% in the 25th year.

■ CSUN ■ Standard warranty



CSUN205-72M

Standard Solar Product

CSUN205-72M
CSUN200-72M
CSUN195-72M
CSUN190-72M

16.06%
Module efficiency

205 W
Highest power output

10 years
Material & workmanship warranty

25 years
Linear power output warranty

- Industry leading conversion efficiency
- Positive tolerance offer
- Passed salt mist corrosion testing and ammonia corrosion testing
- Certificated to withstand wind (2400 Pa) and snow load (5400 Pa)
- Excellent performance under weak light conditions
- Good temperature coefficient for better output in high temperature regions

- China Sunergy (Nanjing) Co., Ltd. (NASDAQ: CSUN), established in 2004, is a hi-tech corporation with its core business in R&D, manufacturing, and sale of high efficiency silicon based solar cells and modules.
- As one of the leading PV enterprises in the world, CSUN has delivered more than 1GW solar products, to residential, commercial, utility and off-grid projects all around the world.
- Through strict selection of raw materials, stringent quality control and rigorous test in state of the art facilities in Nanjing and Shanghai, CSUN has always committed to higher efficiency, more stable and better cost performance products.

* 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.



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Electrical characteristics at Standard Test Conditions (STC)

Module type	CSUN 205-72M	CSUN 200-72M	CSUN 195-72M	CSUN 190-72M
Maximum Power - P _{mpp} (W)	205	200	195	190
Positive power tolerance	0~3%			
Open Circuit Voltage - Voc (V)	45.6	45.3	45.1	45.0
Short Circuit Current - Isc (A)	5.82	5.72	5.63	5.56
Maximum Power Voltage - V _{mpp} (V)	38.0	37.6	37.0	36.5
Maximum Power Current - I _{mpp} (A)	5.40	5.32	5.28	5.21
Practical module efficiency	18.39%	17.94%	17.49%	17.05%
Module efficiency	16.06%	15.67%	15.27%	14.88%

Electrical data relates to standard test conditions (STC): irradiance 1000W/m²; AM 1.5; cell temperature 25°C measuring uncertainty of power is within ±3%. Certified in accordance with IEC61215, IEC61730-1/2 and UL 1703

Electrical Characteristics at Normal Operating Cell Temperature (NOCT)

Module type	CSUN 205-72M	CSUN 200-72M	CSUN 195-72M	CSUN 190-72M
Maximum Power - P _{mpp} [W]	150	146	143	139
Maximum Power Voltage - V _{mpp} (V)	34.3	34.0	33.9	33.7
Maximum Power Current - I _{mpp} (A)	4.37	4.30	4.21	4.12
Open Circuit Voltage - Voc (V)	42.0	41.7	41.5	41.3
Short Circuit Current - Isc (A)	4.71	4.62	4.54	4.49

Electrical data relates to 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 is within ±3%.

Temperature Characteristics

Voltage Temperature Coefficient	-0,307%/K
Current Temperature Coefficient	+0,039%/K
Power Temperature Coefficient	-0,423%/K

Maximum Ratings

Maximum system voltage(V)	1000
Series fuse rating(A)	15

Mechanical Characteristics

Dimensions	1580 × 808 × 35 mm (L × W × H)
Weight	15.6 kg
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 × 12 pieces monocrystalline solar cells series strings (125 mm × 125 mm)
Junction Box	With 3 bypass diodes, rated current ≥ 7.5A, IP ≥ 65, TUV&UL
Cable	Length 900 mm, 1 × 4 m ²

Packaging

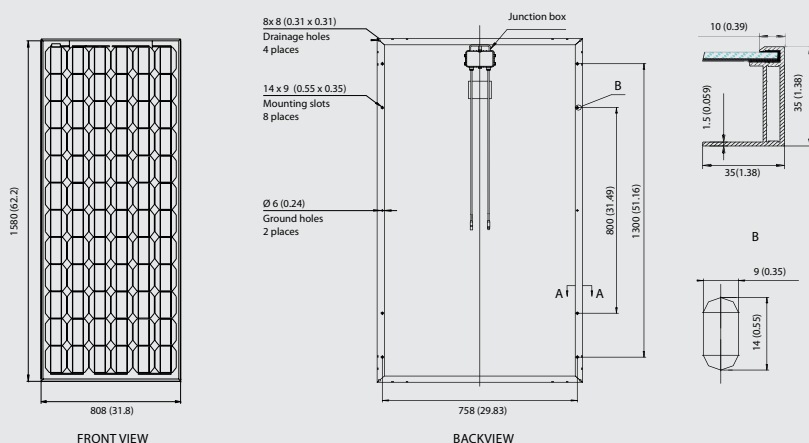
Dimensions (L × W × H)	1630 × 1120 × 112 mm
Container 20'	384
Container 20'HC	408
Container 40'	896
Container 40'HC	952

System Design

Temperature range	-40°C to +85°C
Hail	maximum diameter of 25mm with impact speed of 23m/s (51.2 mph)
Maximum surface load capacity	5400 Pa

Dimensions

Note: mm (inch)



IV-Curves

