

Poly

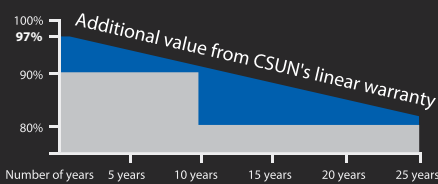


Powerguard insurance global coverage

Within the first year, the output power shall not be less than 97% of the minimum output power in CSUN's product datasheet, thereafter the loss of output power shall not exceed 0.7% per year, ending with 80.2% in the 25th year.

■ CSUN ■ Standard warranty

CSUN's NEW linear performance warranty



CSUN310-72P

High-efficiency poly module



CSUN310-72P CSUN295-72P
 CSUN305-72P CSUN290-72P
 CSUN300-72P

16.01%
Module efficiency

310 W
Highest power output

10 years
Material & workmanship warranty

25 years
Linear power output warranty



Innovative cell and module technology for highest efficiency



Positive tolerance offer



Unique 5 busbar design improves reliability of module performance



Certified to withstand wind (2400 Pa) and snow load (5400 Pa)



Resistance to salt mist & ammonia corrosion, blowing sand and hail



Excellent performance under low light conditions



Good temperature coefficient for better output in high temperature regions

- CSUN, established in 2004, is a high-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 Istanbul, Nanjing and Shanghai, CSUN has always committed to higher efficiency, more stable and better cost performance products.

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Electrical characteristics at Standard Test Conditions (STC)

Module	CSUN 310-72P	CSUN 305-72P	CSUN 300-72P	CSUN 295-72P	CSUN 290-72P
Maximum Power - P _{mpp} (W)	310	305	300	295	290
Positive power tolerance	0~3%	0~3%	0~3%	0~3%	0~3%
Open Circuit Voltage - Voc (V)	44.8	44.7	44.5	44.4	44.3
Short Circuit Current - Isc (A)	9.04	8.97	8.91	8.83	8.75
Maximum Power Voltage - V _{mpp} (V)	36.1	35.9	35.8	35.7	35.6
Maximum Power Current - I _{mpp} (A)	8.58	8.50	8.37	8.26	8.15
Module efficiency	16.01%	15.75%	15.49%	15.23%	14.98%

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	CSUN 310-72P	CSUN 305-72P	CSUN 300-72P	CSUN 295-72P	CSUN 290-72P
Maximum Power - P _{mpp} (W)	228	225	220	217	213
Maximum Power Voltage - V _{mpp} (V)	33.4	33.2	32.9	32.5	32.3
Maximum Power Current - I _{mpp} (A)	6.83	6.77	6.71	6.67	6.59
Open Circuit Voltage - Voc (V)	41.4	41.3	41.1	41.0	40.8
Short Circuit Current - Isc (A)	7.29	7.24	7.19	7.01	6.95

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	-0.292%/K
Current Temperature Coefficient	+0.045%/K
Power Temperature Coefficient	-0.408%/K

Maximum Ratings

Maximum system voltage (V)	1000
Series fuse rating (A)	20
Reverse current overload (A)	27

Mechanical Characteristics

Dimensions	1956 × 990 × 50 mm
Weight	23.8 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 polycrystalline solar cells series strings (156 mm × 156 mm)
Junction Box	Rated current ≥ 12A, IP ≥ 65, TUV & UL
Cable	Length 900 mm, 1 × 4 mm ²
Connector	MC 4/ compatible with MC 4

Packaging

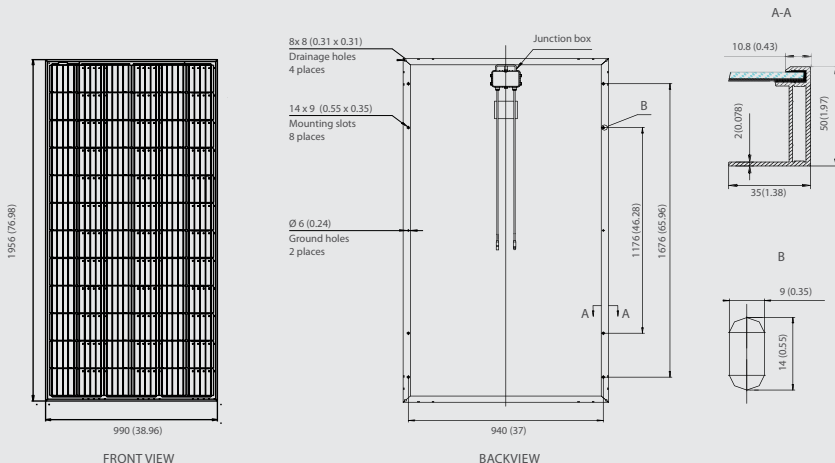
Container 20'	200 pcs.
Container 40'	480 pcs.
Container 40'HC	516 pcs.

System Design

Temp. range	-40°C to +85°C
Hail	max. diameter of 25mm with 23m/s impact speed
Max. capacity	Snow 5400 Pa, wind 2400 Pa
Application class	A
Safety class	II

Dimensions

Note: mm (inch)



IV-Curves

