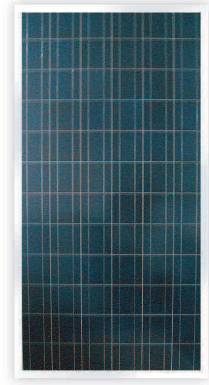


CSUN290-72P

Highest Module Efficiency: 15.24%

Our standard modules are designed, developed and manufactured for both residential and commercial, rooftop and ground-mounted, as well as on-grid and off-grid photovoltaic projects.

Quality of our products is the reason of CSUN's life. We select the best raw materials and conduct regular testing to ensure that they can meet our rigorous quality standards. Every module has been tested before delivery to make sure the efficiency tolerance is in a narrow range. Each link is strictly controlled to ensure the benefit of our customers.



Features

- 72 High-Efficiency Polycrystalline Solar Cells;
- Passing mechanical load test of 5400Pa according to IEC 61215(advanced test);
- Tested to withstand hails with maximum diameter of 25mm with impact speed of 23m/s;
- The high-transparency low-iron tempered glass allows maximum light permeability while enhancing stiffness and impact resistance;
- Integrated bypass diodes to protect the solar cell circuit from hot spots during partial shadowing;
- Our module technology avoids any problems of water freezing and warping;
- Black backsheet or black frame is also available.

Quality and Certificates

- 10-year limited product warranty;
- 25-year power output warranty.*
- Certifications**:

Certification Authority	Test Standard	Power Range
TÜV Rheinland	IEC61215 IEC61730	255W-305W
UL	UL1703	245W-285W
Intertek	UL1703	240W-290W
CEC	IEC61215 UL1703	275W-290W
FSEC	IEC61215 UL1703	240W-290W
MCS	IEC61215 IEC61730	255W-305W



* 12 year at 90% of the minimal rated power output, 20 year at 83%, and 25 year at 80%

**Note: All specifications, warranties, certifications about module of "CSUN" series also apply to that of "SST".

Specifications

Type	295-72P	290-72P	285-72P	280-72P	275-72P
Peak Power (Pmpp)	295	290	285	280	275
Open Circuit Voltage (Voc)	44.4	44.3	44.1	44.0	43.8
Short Circuit Current (Isc)	8.83	8.75	8.67	8.58	8.48
Optimum operating Voltage (Vmpp)	35.7	35.6	35.4	35.3	35.2
Optimum operating Current (Impp)	8.26	8.15	8.05	7.94	7.82
Module efficiency	15.24%	14.98%	14.72%	14.46%	14.20%
Maximum system voltage [V]	1000				
Voltage temperature coefficient	-0.292%/K				
Current temperature coefficient	+0.045%/K				
Power temperature coefficient	-0.408%/K				
Series fuse rating[A]	20				
Cells	6×12 pieces polycrystalline solar cells series strings 156mm×156mm (6inch)				
Junction box	with 6 bypass diodes				
Cable	length 900 mm (35.4inch), 1×4 mm ² (0.16inch ²)				
Front glass	white toughened safety glass, 3.2 mm (1/8inch)				
Cell encapsulation	EVA (Ethylene-Vinyl-Acetate)				
Back sheet	composite film				
Frame	anodised aluminium profile				
Dimensions	1956×990×50mm [76.98×38.98×1.97inch] (L×W×H)				
Weight	23.8kg (52.4lbs)				

The electrical data relates to standard test conditions [STC]: 1,000 W/m²; AM 1.5; 25°C.

Performance deviation of Pmpp: 0~±3%; Performance deviation of Voc, Isc, Vmp and Imp: ±10%.

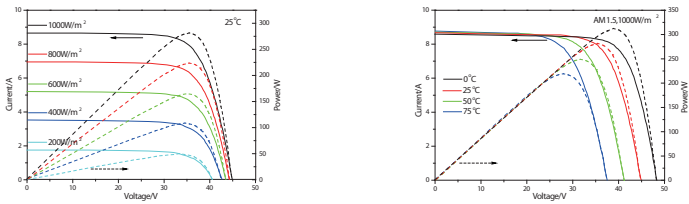
Certified in accordance with IEC 61215, IEC 61730-1/2 and UL 1703.

Operating Condition & Packaging

Maximum surface load capacity	tested up to 5,400 Pa according to IEC 61215
Hail	maximum diameter of 25 mm with impact speed of 23m/s (51.2mph)
Temperature range	- 40 °C to + 85 °C

Dimensions(L×W×H)	Container 20'	Container20'HC	Container40'	Container40'HC
1956×990×50mm	200	215	480	516

IV-Curves



Dimensions

