



CSUN195-72M

Revolutionary Product —Selective Emitter™ Solar Module Same module size. Same exposure time, More power output!

Made of CSUN SE high efficiency solar cells*, CSUN SE modules can deliver you 10% higher efficiency**. Especially, you could benefit MORE from the excellent performance under the low light condition and low hot spot effect, and get LESS degradation under light exposure.



MORE - LESS =? You know how to choose!

Features

- High conversion efficiency;
- Low power tolerance of ±3%;
- Excellent performance under low lighting conditions;
- Low hot spot effect, due to low reverse current density;
- Low degradation under light exposure;
- Low cell performance mismatch during encapsulation, our SE module demonstrates high power output, which is very close to the power generated by the whole cells before encapsulation;
- Passing mechanical load test of 5400Pa according to IEC 61215 (advanced test);
- Tested to withstand hails with maximum diameter of 25mm and impact speed of 23m/s;
- Blacksheet is also available.

Quality and Certificates

- 5-year hardware warranty;
- 25-year power output warranty***.
- Certifications:

Certification Authority	Test Standard	Power Range	
TÜV Rheinland	IEC61215	40W-200W	
ASU-PTL	IEC61215	155W-185W	
VDE	IEC61215 IEC61730-1/2	155W-180W	
CSA	UL1703	155W-190W	









- Average efficiency of 17.5%, up to 18%.
- ** Compared to modules with the same size, made of normal P-type solar cells , average efficiency of which is 16%.
- *** 10 years at 90% of the minimal rated power output, 25 years at 80% of the minimal rated power output.

Specifications

Туре	205-72M	200-72M	195-72M	190-72M	185-72M
Peak Power (Pmpp)	205	200	195	190	185
Open Circuit Voltage (Voc)	45.6	45.3	45.1	45.0	44.8
Short Circuit Current (Isc)	5.82	5.72	5.63	5.56	5.48
Optimum operating Voltage (Vmpp)	38.0	37.6	37.0	36.5	35.8
Optimum operating Current (Impp)	5.40	5.32	5.28	5.21	5.17
Module efficiency	16.06%	15.67%	15.27%	14.88%	14.49%
Maximum system voltage [V]	1000(IEC)/600(UL)				
Voltage temperature coefficient	-0.307%/K				
Current temperature coefficient	+0.039%/K				
Power temperature coefficient	-0.423%/K				
Series fuse rating[A]	10				
Cells	6×12 pieces monocrystalline solar cells series strings				
Cells	125mm×125mm (5inch)				
Junction box	with 3 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				
Dii	^a 1580×808×35mm (L×W×H) [62.2×31.81×1.38inch]				
Dimensions	^b 1580×808×50mm (L×W×H) [62.2×31.81×1.97inch]				
Weight	^a 15.6kg (34.4lbs) ^b 16kg (35.3lbs)				

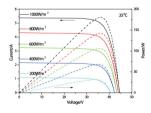
The electrical data relates to standard test conditions [STC]: 1,000 W/m²; AM 1,5; 25°C. Performance deviation of Pmpp: \pm 3%; Performance deviation of Voc, Isc, Vmp and Imp: \pm 10%. Certified in accordance with IEC 61215, IEC 61730-1/2.

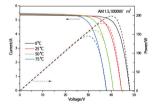
Operating Condition & Packaging

Maximum surface load capacity	tested up to 2,400 Pa according to IEC 61215 ^a tested up to 5,400 Pa according to IEC 61215 (advanced test) ^b maximum diameter of 25 mm with impact speed of 23 m/s (51.2mph)	
Hail		
Temperature range	– 40 °C to + 85 °C	

(Dimensions(L×W×H)	Container 20'	Container 40'	Container 40HC'
	1580×808×35mm	360	840	952
	1580×808×50mm	258	602	686

IV-Curves





Dimensions

