

CSUN200-48M

Highest Module Efficiency: 15.69%

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

- 48 High-Efficiency Monocrystalline 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	175W-215W
MCS	IEC61215 IEC61730	175W-215W
CGC	IEC61215 IEC61730	190W-230W



* 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	205-48M	200-48M	195-48M	190-48M	185-48M
Electrical typical data					
Pmpp [W]	205	200	195	190	185
Voc [V]	30.0	29.9	29.7	29.6	29.4
Isc [A]	8.86	8.78	8.71	8.59	8.50
Vmpp [V]	24.2	24.1	23.9	23.8	23.7
Impp [A]	8.47	8.30	8.16	7.99	7.81
Practical module efficiency	17.87%	17.44%	17.00%	16.57%	16.13%
Module efficiency	15.69%	15.31%	14.92%	14.54%	14.16%
Maximum system voltage [V]	1000				
Voltage temperature coefficient	-0.307%/K				
Current temperature coefficient	+0.039%/K				
Power temperature coefficient	-0.423%/K				
Series fuse rating[A]	20				
Front glass	White toughened safety glass, 3.2 mm				
Cells	6×8 pieces monocrystalline solar cells series strings (156mm×156mm)				
Junction box	with 6 bypass diodes				
Cable	length 900 mm, 1×4 mm ²				
Cell encapsulation	EVA (Ethylene-Vinyl-Acetate)				
Back sheet	Composite film				
Frame	Anodized aluminum profile				
Dimensions	1320×990×35mm [51.97×38.98×1.38inch] (L×W×H)				
Maximum surface load capacity	5400 Pa				
Hail	maximum diameter of 25 mm with impact speed of 23 m·s ⁻¹				
Temperature range	- 40 °C to + 85 °C				

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

Performance deviation of Pmpp: ±3%, performance deviation of Voc[V],Isc[A],Vmpp [V] and Impp [A]: ±10%.

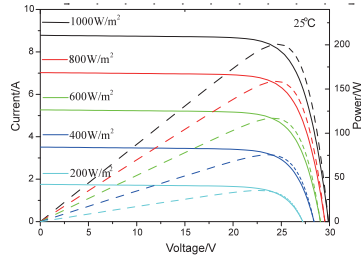
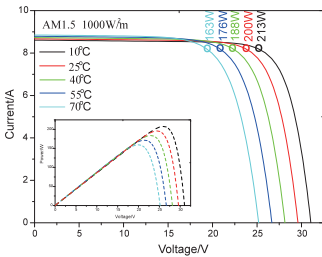
Certified in accordance with IEC 61215, IEC 61730-1/2 and UL 1703.

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
1320×990×35mm	448	480	946	1014

IV-Curves



Dimensions

