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**Solar Panel Guide
Specification Data Sheet**

**CSG PVTech Co., Ltd.
CSGAAAM2-54 (Poly 230W-255W)
CSG255M2-54**

Also available on the web at
EnergyPal.com/csg-pvtech-co-ltd-solar-panels/csg255m2-54



Over 30 years manufacturing experience, the complete PV chain including silicon materials, wafer, solar glass, solar cell, solar module and solar project, and ISO9001 & ISO14001 certified factory, ensure excellent raw materials and production control.



Solar modules certified by TUV Rheinland (IEC61215 & IEC61730) in the extreme conditions (Temperature, load, impact) with good performance.



The good weak light performance (morning, evening and cloudy days) has been tested and approved by professional third-party.



Guarantee from 0 to +6W as power tolerance, customer can obtain 5.8% power more than conventional output.

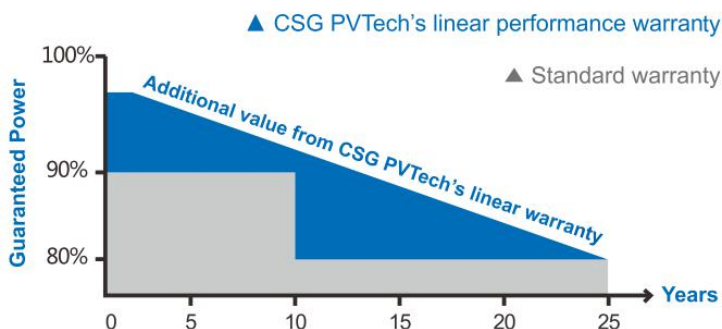


100% EL test before and after lamination, and finished products EL test, providing higher quality assurance.



High Efficiency

Poly-Crystalline Solar Module



Warranty: For a period of 25 years commencing on the warranty start date, loss of power output of the nominal power output measured at STC for the products shall not exceed:

1. For polycrystalline products: 2.5% in first year, therefore 0.7% per year, ending with 80.7% in the 25th year.
2. For monocrystalline products: 3% in first year, therefore 0.708% per year, ending with 80% in the 25th year.

Typical Electrical Characteristics

| | | | | | | |
|---------------------------------|--|------|------|------|------|------|
| Solar Cell: | Poly Crystalline 156.75×156.75mm 54 Cell (6×9) — 5BB Solar Cell | | | | | |
| Max Power | 230 | 235 | 240 | 245 | 250 | 255 |
| Power Tolerance | 0 to +6W | | | | | |
| Voltage at Pmax (Vmp) | 27.9 | 28.1 | 28.3 | 28.5 | 28.7 | 28.9 |
| Current at Pmax (Imp) | 8.24 | 8.36 | 8.48 | 8.6 | 8.71 | 8.83 |
| Open-circuit Current(Voc) | 34 | 34.3 | 34.5 | 34.8 | 35.1 | 35.3 |
| Short-circuit Current (Isc) | 8.92 | 9.05 | 9.18 | 9.31 | 9.43 | 9.56 |
| Max System Voltage(VDC) | 1000V(IEC), 600V(UL) | | | | | |
| Module Efficiency (%) | 15.6 | 16 | 16.3 | 16.7 | 17 | 17.3 |
| No. Of Bypass Diodes (pcs) | 3 | | | | | |
| Max Series Fuse (A) | 15A | | | | | |
| Temperature Coefficient at Pmax | -0.43%/°C | | | | | |
| Temperature Coefficient at Voc | -0.32%/°C | | | | | |
| Temperature Coefficient at Isc | 0.04%/°C | | | | | |
| NOCT | 45±2 °C | | | | | |

STC Conditions (1000W/m²; 1.5AM and 25°C Cell Temperature)

| | |
|--------------------------------|--|
| Cable Type, diameter, Length | Φ=4mm ² , L=900±5mm |
| Type of Connector | Compatible type MC4 |
| Dimension A×B×C | 1482*992*35mm |
| Weight | 17kg |
| No. Of Draining Holes in Frame | 16 |
| Construction | Glass: High Transmission, Low Iron, Tempered Glass 3.2mm Encapsulation: EVA Backsheet: Fluorinated, white |
| Junction box | IP68 Rated |
| Frame | Clear anodized aluminum alloy Type 6063T5 frame |

Mechanical Characteristics

| | |
|-------------------------------|-------------------------------|
| Dielectric Insulation Voltage | 6000VDC max |
| Operating Temperature | -40°C ~ +85°C |
| Max Load | 5400Pa |
| Hailstone Impact | 25mm (1inch) at 23m/s (52mph) |
| Fire Rating | Class C |

Packing

| | |
|-----------------------|------------------------------|
| Packing Configuration | 30pcs/ carton, 2pcs/carton |
| Loading Capacity | 896pcs/40HQ 288pcs/20GP |