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# **EnergyPal**

## **Solar Panel Guide Specification Data Sheet**

**CSG PVTech Co., Ltd.  
CSGAAAM2-36 (Poly 155W-180W)  
CSG170M2-36**

Also available on the web at  
[EnergyPal.com/csg-pvtech-co-ltd-solar-panels/csg170m2-36](http://EnergyPal.com/csg-pvtech-co-ltd-solar-panels/csg170m2-36)



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.

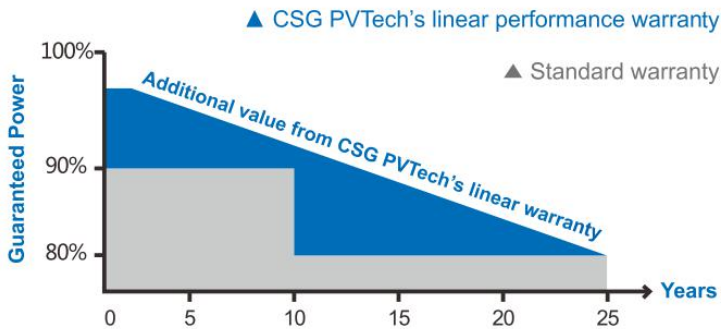


100% EL test before and after lamination, and finished products EL test, providing higher quality assurance.



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 25<sup>th</sup> year.
2. For monocrystalline products: 3% in first year, therefore 0.708% per year, ending with 80% in the 25<sup>th</sup> year.

## Typical Electrical Characteristics

Solar Cell:	Poly Crystalline 156.75×156.75mm 36 Cell (4×9) — 5BB Solar Cell					
Max Power	155	160	165	170	175	180
Power Tolerance	0 to +6W					
Voltage at Pmax (Vmp)	18.6	18.8	19	19.2	19.4	19.6
Current at Pmax (Imp)	8.34	8.51	8.69	8.86	9.02	9.19
Open-circuit Current(Voc)	22.7	22.9	23.1	23.4	23.6	23.8
Short-circuit Current (Isc)	9.02	9.21	9.41	9.59	9.73	9.93
Max System Voltage(VDC)	1000V(IEC), 600V(UL)					
Module Efficiency (%)	15.5	16	16.5	17	17.5	18
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/m<sup>2</sup>; 1.5AM and 25°C Cell Temperature)

Cable Type, diameter, Length	Φ=4mm <sup>2</sup> , L=900±5mm
Type of Connector	Compatible type MC4
Dimension A×B×C	1482*674*35 mm
Weight	11.5kg
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	1260pcs/40HQ      432pcs/20GP