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Solar Panel Guide Specification Data Sheet

CSG PVTech Co., Ltd.
CSGAAAS2-48 (Mono225W-250W)
CSG230S2-48

Also available on the web at
EnergyPal.com/csg-pvtech-co-ltd-solar-panels/csg230s2-48



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.

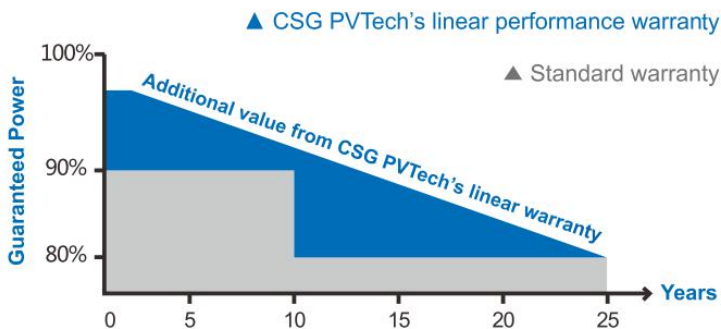


100% EL test before and after lamination, and finished products EL test, providing higher quality assurance.



High Efficiency PERC

Mono-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:	Mono Crystalline 156.75×156.75mm 48 Cell (6×8) — 5BB Solar Cell					
Max Power	225	230	235	240	245	250
Power Tolerance	0 to +6W					
Voltage at Pmax (Vmp)	25.4	25.6	25.8	26	26.2	26.4
Current at Pmax (Imp)	8.86	8.99	9.11	9.23	9.35	9.47
Open-circuit Current(Voc)	31.4	31.7	31.9	32.1	32.3	32.5
Short-circuit Current (Isc)	9.58	9.73	9.67	9.81	9.95	10.1
Max System Voltage(VDC)	1000V(IEC), 600V(UL)					
Module Efficiency (%)	17.1	17.5	17.9	18.3	18.7	19
No. Of Bypass Diodes (pcs)	3					
Max Series Fuse (A)	15A					
Temperature Coefficient at Pmax	-0.39%/°C					
Temperature Coefficient at Voc	-0.29%/°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	1324*992*35mm
Weight	15kg
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	928pcs/40HQ 392pcs/20GP