For a Free Quote:
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Solar Panel Guide

Specification Data Sheet

Learn more at energypal.com/best-solar-panels-for-homes

东莞南玻光伏科技有限公司
CSG PVTECH CO. .LTD

CSGaaaS2-36（aaa=165W-190W）

PV Chain

Over 30 years manufacturing experience, the complete PV chain including silicon materials, wafer, solar glass,solar cell, solar module and solar project, and IS09001 &ISO14001 certified factory, ensure excellent raw materials and production control.

TUV

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

Weak Light

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

0 /+6W

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

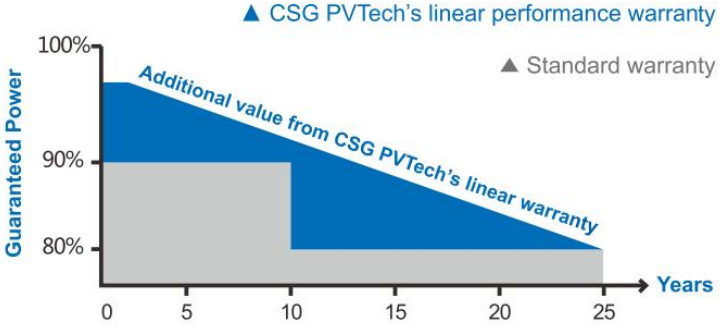
100%

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.

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Typical Electrical Characteristics

Solar Cell:	Mono Crystalline 156.75×156.75mm 36 Cell (4×9) —— 5BB Solar Cell					
Max Power	165	170	175	180	185	190
Power Tolerance	0 to +6W					
Voltage at Pmax (Vmp)	18.7	18.9	19.1	19.3	19.5	19.7
Current at Pmax (Imp)	8.82	8.99	9.16	9.33	9.49	9.65
Open-circuit Current(Voc)	22.8	22.9	23.1	23.3	23.5	23.7
Short-circuit Current (Isc)	9.55	9.74	9.94	10.14	10.34	10.53
Max Syst en Voltage(VDC)	1000V(IEC), 600V(UL)					
Module Efficiency（%）	16.5	17	17.5	18	18.5	19
No. Of Bypass Diodes (pcs)	3					
Max Series Fuse (A)	15A					
Temperature Coefficient at Pmax	-0.39%/℃					
Temperature Coefficient at Voc	-0.29%/℃					
Temperature Coefficient at Isc	0.04%/℃					
NOCT	45±2 ℃					

STC Conditions（1000W/m^2; 1.5AM and 25℃ Cell Temperature）

Cable Type, diameter, Length	Φ=4mm^2, 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℃～+85℃
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