## CSGAAAM2-72(AAA=310W-340W)





Several decades of experience in manufacturing, the complete PV chain including silicon materials, ingot, wafer, solar glass, solar cell,solar module and solar project, and ISO90001 & ISO14001 certified factory, ensure excellent raw materials and production control.



Modules certified by TUV Rheinland (IEC61215, IEC 61730 standards) in the extreme conditions (temperature, load, impact) with good performance. Pass strict tests of solar modules including Salt-mist Corrosion Test, Fire Test, Ammonia Resistance Test, PID Test, Sand Abrasion Test and Carbon Footprint Assessment in TUV.



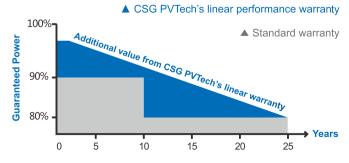
The good weak light performance (morning, evening and cloudy day) has been tested and approved by professional third-party.



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



 $100\%\,\text{EL}$  test before and after lamination, and finished products EL test, providing higher quality assurance.

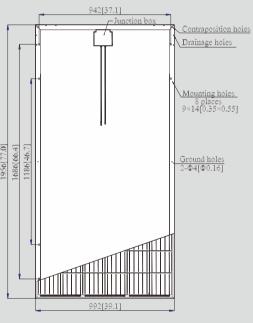


For a period of twenty-five (25)years commencing on the Warranty Start Date, loss of power output of the nominal power output measured at Standard Test Conditions (STC) for the Product(s) shall not exceed:

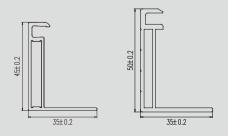
- 1.For Polycrystalline Products: 2.5% in the first year, thereafter 0.7% per year, ending with 80.7% in the 25th year after the Warranty Start Date.
- 2. For Monocrystalline Products: 3 % in the first year, thereafter 0.708% per year, ending with 80.2% in the 25th year after the Warranty Start Date.



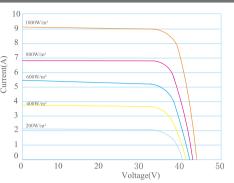
High Efficiency
Poly-crystalline Solar Module



Unit: mm[inch]



### I-V Curves



I-V Curves of PV module CSG 325W at different light power

#### Typical Electrical Characteristics Poly-Crystalline 156.75×156.75mm Solar cells: 72pcs (6×12) — 5 bus bars Max-power 310 315 320 325 330 335 340 Power Tolerance 0 to +6W Voltage at Pmax (Vmp) 36.9 37.0 37.1 37.2 37.3 37.4 37.5 Current at Pmax (Imp) 8.40 8.51 8.63 8.74 8.84 8.95 9.06 Open-Circuit Voltage (Voc) 45.2 45.3 45.4 45.5 45.6 45.7 45.8 Short-Circuit Current (Isc) 9.09 9.21 9.33 9.46 9.55 9.67 9.78 Max-System Voltage (VDC) 1000V(IEC), 600V(UL) Cell Efficiency 17.9 18.2 18.5 18.8 19.0 19.3 19.5 Module Efficiency 16.0 16.3 16.5 16.8 17.0 17.3 17.5 No. of Bypass Diodes (pcs.) 3 Max. Series Fuse (A) 15A -0.43%/°C Temperature Coefficient of Pmax -0.32%/°C Temperature Coefficient of Voc Temperature Coefficient of Isc 0.04%/℃ Nominal Operating Cell Temperature 45±2 ℃

<sup>\*</sup>STC Conditions (1000W/m²; 1.5 AM and 25°C Cell temperature)

Mechanical Characteristics						
Cable type, Diameter and Length Type of Connector	Φ=4mm2, L=1000±5mm Compatible type MC4					
Dimension A×B×C	1956×992×45/40mm					
Weight	21.5/20.8KG					
No. of Draining Holes In Frame	16					
Construction	Glass: High Transmission, Low Iron, Tempered Glass 3.2mm Encapsulation: EVA Back side: White					
Junction Box	Ip68 Rated					
Frame	Clear anodized aluminum alloy type 6063T5 frame					

# Qualification Test Parameters

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

## Packaging Configuration 1956×992×40mm

Packaging Configuration	26pcs/box and 2p	ocs/box
Loading Capacity	616pcs/40HQ	220pcs/20GP

#### Packaging Configuration 1956×992×45mm

Packaging Configuration	23 pcs/box and 2	pcs/box
Loading Capacity	550 pcs/40HQ	205 pcs/20GF