

Mono Crystalline Module - SS305W



MOTORHOME/BOAT/CARAVAN/CAMPER/HOME/OFFICE & MUCH, MUCH MORE.....

Sunshine Solar - SS305W



Guaranteed Performance**

10 Years
Manufacturing Warranty

12 Years Warranty
90% Power Output

25 Years Warranty
80% Power Output

Free module recycling through
membership in the PV cycle Association

- Plus power tolerance(0-3%) to ensure the high reliability of power output
- Module certified by TUV
 - For SNOW ZONE III, withstand high level of wind loads(2400Pa) and snow loads(5400Pa)
 - For PID test. No Potential Induced Degradation cause by High Voltage Stress
 - For Salt mist corrosion, ammonia corrosion test
- Anti-reflective, hydrophobic layer of module surface(proprietary 800° C online coating technology) improves light absorption and reduces surface dust
- Easy installation and minimal maintenance with compatibility to industry standard inverters and mounting system
- Special PV Module Insurances by world leading insurance company guarantees the benefit of PV investors and PV module users
- Junction box and bypass diodes guarantee the module free of overheating and "hot spot effect"
- Modules' excellent performance under low light environments(mornings, evenings, and cloudy days) create better kWh/kW ratio and produce average 2-3% more electricity in the field

Sunshine Solar Limited

Professional solar solution provider since 2004, reliable partner of UK distributors, installers and project integrators. Our carefully selected manufacturing partners work to recognised international standards and environment system: ISO 9001 and ISO 14001.

Operating from combined offices and warehouses in Norfolk, Sunshine Solar's aim to be the UK's number one supplier of quality renewable energy products offering speedy delivery and outstanding customer support.



QUALIFICATIONS AND CERTIFICATES



Minimal wiring effort required as the module has high reverse current resistance

Most updated design with drainage holes in the frame ensures the modules to withstand various weather conditions

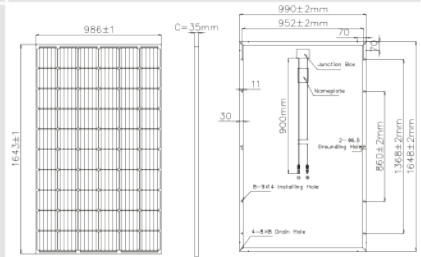


Mono Crystalline Module - SS305W

MECHANICAL SPECIFICATION

Cell Type	Mono crystalline 156(156.75) x156(156.75) mm
Number of cells	60(6x10)
Dimensions(AxBxC)	1648x990x35mm
Weights	17.5kg
Front Glass	3.2 mm Low iron tempered glass
Frame	Anodized aluminum
Junction Box	IP 67, with bypass diodes
Connector	
Output Cables	TÜV, length 900mm, 4.0mm ²

MECHANICAL DRAWINGS



ELECTRICAL CHARACTERISTICS

PERFORMANCE AT STANDARD TEST CONDITION(STC:1000W/m², 25° C, AM1.5)

Module Series	SS305W
Maximum Power at STC(P _{max})	305W
Short Circuit Current(I _{sc})	9.80A
Open Circuit Voltage(V _{oc})	40.0V
Maximum Power Current(I _{mpp})	9.42A
Maximum Power Voltage(V _{mpp})	32.40V
Encapsulated Cell Efficiency	21.53%
Module Efficiency	18.69%
Power Tolerance	0/+3%

PERFORMANCE AT NORMAL OPERATING CELL TEMPERATURE

(NOTE: Irradiance = 800 W/m², Air Temperature = 20°C, Wind Velocity = 1 m/s)

Maximum Power(P _{max})	221.06W
Short Circuit Current(I _{sc})	8.00A
Open Circuit Voltage(V _{oc})	36.96V
Maximum Power Current(I _{mpp})	7.38A
Maximum Power Voltage(V _{mpp})	29.94V

The typical relative change in module efficiency at an irradiance of 200W/m² in relation to 1000W/m² (both at 25° C and AM 1.5 spectrum) is less than 6%

TEMPERATURE CHARACTERISTICS

Nominal Operating Cel Temperature(NOCT)	44±2° C
Temperature Coefficient of P _{max} (γ)	-0.4%/K
Temperature Coefficient of V _{oc} (β)	-0.37%/K
Temperature Coefficient of I _{sc} (α)	0.05%/K

PACKING CONFIGURATION

Container	20'GP	40'GP	40'HQ
Pieces per container	360	840	896

SYSTEM INTEGRATION PARAMETERS

Maximum system voltage	DC 1000V/1500V
Maximum Series Fuse	15A
Maximum reverse current	21.5A
Increased snowload acc. to IEC 61215	5400Pa
Operating Temperature	-40~+85° C
Number of bypass diodes	3

