TOPRAY Solar

Recommended For

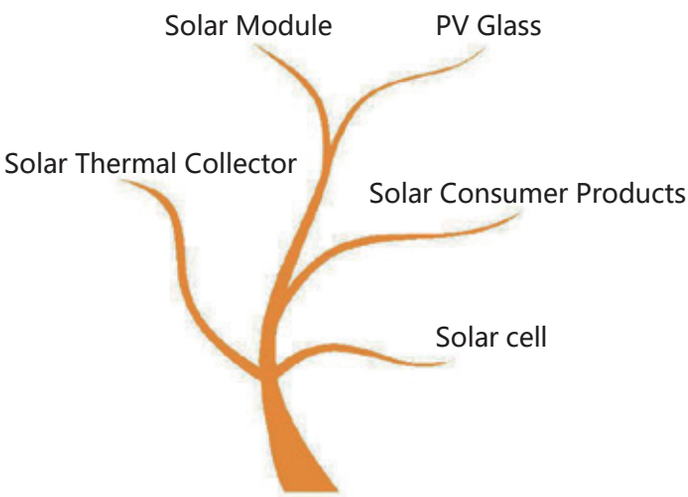
Utility Scale Ground Mounted

TPSh-M6M144SH1W 430W

Mono Crystalline Photovoltaic Module

Not Your Average Solar Provider

Our Products Categories



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

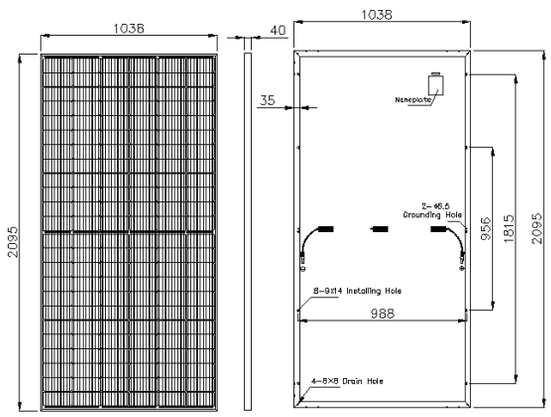
Key Feature

- High module efficiency
- Plus power tolerance:0~+ 3%.
- Independently developed anti-reflective and self-cleaning glass surface reduces power loss from dirt and dust.
- Excellent performance under low light environments, create better kWh/kW ratio and produce 2- 3% more electricity average in average.
- Certified by TUV to withstand high level of wind loads (2400Pa) and snow loads (5400Pa)*.

Best Quality

- Junction box and bypass diodes guarantee the modules free of overheating and "hot spot effect".
- Compatible with industry standard inverters and Mounting systems.
  Guarantee minimal maintenace effort required.
- 100% EL double-inspection ensures modules free of defects.
- Potential Induced Degradation (PID) free.

* Please refer to Topray Safety and Installation Manual for details.
**Please refer to Topray Limited Product Warranty for details.



MECHANICAL DRAWINGS

TPSh-M6M144SH1W

430W
Mono Crystalline Photovoltaic Module

ELECTRICAL CHARACTERISTICS

MECHANICAL SPECIFICATION

Cell Type	Mono Crystalline 166×83 mm
Number of cells	144 (6×24)
Dimensions (A×B×C)	2095×1038×40mm
Weights	23.0kg
Glass	3.2 mm Low iron tempered glass
Frame	Anodized aluminum alloy
Junction Box	IP 67,with bypass diodes
Connector	MC4 compatible
Output Cables	TÜV standard, length 350mm, 4.0mm²

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

Module Series	TPSh-M6M144SH1W-430W
Maximum Power at STC(Pmax)	430W
Short Circuit Current(Isc)	11.18A
Open Circuit Voltage(Voc)	49.00V
Maximum Power Current(Impp)	10.69A
Maximum Power Voltage(Vmpp)	40.23V
Module Efficiency	19.75%
Power Tolerance	0/+3%

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%.

PACKING CONFIGURATION

Container	20' GP	40' GP	40' HQ
Pieces per container	270	594	638

TEMPERATURE CHARACTERISTICS

Nominal Operating Cell Temperature (NOCT)	44 ± 3°C
Temperature Coefficient of Pmax (γ)	- 0.4%/k
Temperature Coefficient of Voc (β)	- 0.37%/k
Temperature Coefficient of Isc (α)	0.05%/k

SYSTEM INTEGRATION PARAMETERS

Maximum system voltage	DC 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

QUALIFICATIONS AND CERTIFICATES

CE-Compliant, IEC 61215 (Ed.2), IEC 61730 (Ed.1) application classA,TÜV Safety Class II,UL 1703

Safety Class II

DEALER INFORMATION BOX

NOTE:READ SAFETY AND INSTALLATION INSTRUCTIONS OR CONTACT THE TECHNICAL SERVICE FOR FURTHER INFORMATION BEFORE USING THE PRODUCT.