



Recommended For



Utility Scale Ground Mounted

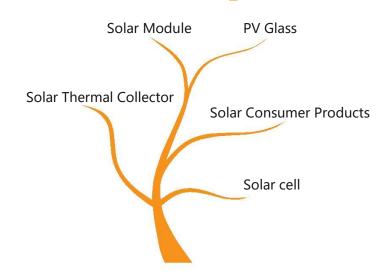
TPSh-M2M60SF1W

300-310W

Mono Crystalline Photovoltaic Module

Not Your Average Solar Provider

Our Products Categories



Guaranteed Performance**

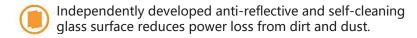
- 10 Years Manufacturing Warranty
- 12 Years Warranty,90% Power Output
- 25 Years Warranty,80% Power Output

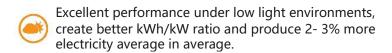
Free module recycling through membership in the PV Cycle Association

Key Feature









Certified by TUV to withstand high level of wind loads (2400Pa) and snow loads (5400Pa)*.

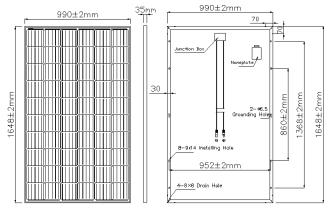
Best Quality

- 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.





TPSh-M2M60SF1W Mono Crystalline Photovoltaic Module

300-310W

MECHANICAL DRAWINGS

ELECTRICAL CHARACTERISTICS

MECHANICAL SPECIFICATION

Mono Crystalline 157×157mm Cell Type

60 (6×10) Number of cells

Dimensions (A×B×C) 1648×990×35mm

17.5kg Weights

Front Glass 3.2 mm Low iron tempered glass

Anodized aluminum alloy Frame IP 67, with bypass diodes Junction Box

Connector MC4 compatible

TÜV standard, length 900mm, 4.0mm² **Output Cables**

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

Module Series	TPSh-M2M60SF1W-XXXW		
Maximum Power at STC(Pmax)	300W	305W	310W
Short Circuit Current(Isc)	9.72A	9.80A	9.90A
Open Circuit Voltage(Voc)	39.80V	40.00V	40.20V
Maximum Power Current(Impp)	9.22A	9.42A	9.22A
Maximum Power Voltage(Vmpp)	32.13V	32.38V	32.53V
Module Efficiency	18.39%	18.69%	19.00%
Power Tolerance	0/+3%	0/+3%	0/+3%

The typical relative change in module efficiency at an irradiance of $200W/m^2$ in relation to $1000W/m^2$ (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	372	868	924

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













DEALER INFORMATION BOX