TOPRAY Solar

Recommended For

Commercial Roof

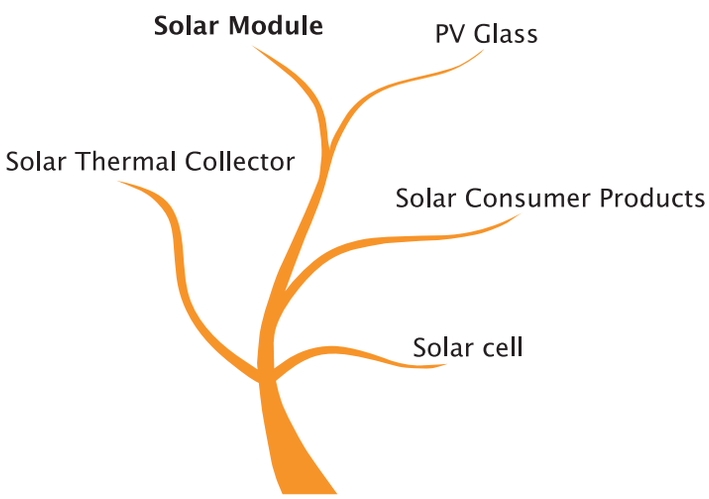
Utility Scale Ground Mounted

TPSP6U

240W/245W/250W/255W/260W
Poly 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 up to 16.00 %
- Plus power tolerance:0~+3%
- Independent research 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 average 2-3% more electricity
- 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”
- Industry standard inverters and mounting systems guarantee minimal maintenace
- 100%EL double-inspection ersures modules are defects free
- Modules binned current to improve system performance
- Potential Induced Degradation (PID) free

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

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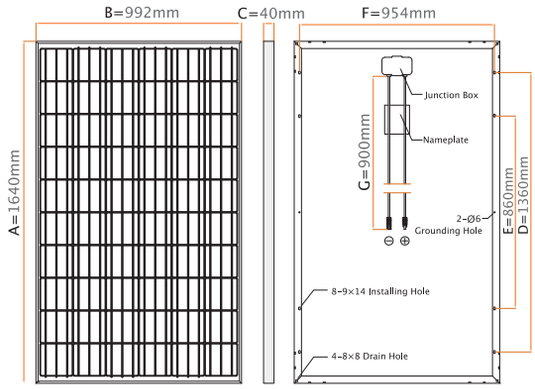


MECHANICAL DRAWINGS

TPSP6U

240W/245W/250W/255W/260W
Poly Crystalline Photovoltaic Module

ELECTRICAL CHARACTERISTICS

MECHANICAL SPECIFICATION

Cell Type	Poly crystalline 156×156 mm (6 inches)
Number of cells	60 (6×10)
Dimensions (A×B×C)	1640×992×40mm
Weights	18.6kg
Front Glass	3.2 mm Low iron tempered glass
Frame	Anodized aluminum alloy
Junction Box	Ip 65,with bypass diodes
Connector	MC4 compatible
Output Cables	TÜV, length 900mm, 4.0mm²

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' HQ
Pieces per pallet	25	25
Pallets per container	6	28
Pieces per container	290	700

TEMPERATURE CHARACTERISTICS

Nominal Operating Cell Temperature (NOCT)	47±3°C
Temperature Coefficient of Pmax (γ)	-0.43%/K
Temperature Coefficient of Voc (β)	-0.36%/K
Temperature Coefficient of Isc (α)	0.05%/K

SYSTEM INTEGRATION PARAMETERS

Maximum system voltage	DC 1000V
Maximum Series Fuse	16A
Maximum reverse current	21.5A
Increased snowload acc. to IEC 61215	5400Pa
Operating Temperature	-40~+85°C
Number of bypass diodes	6

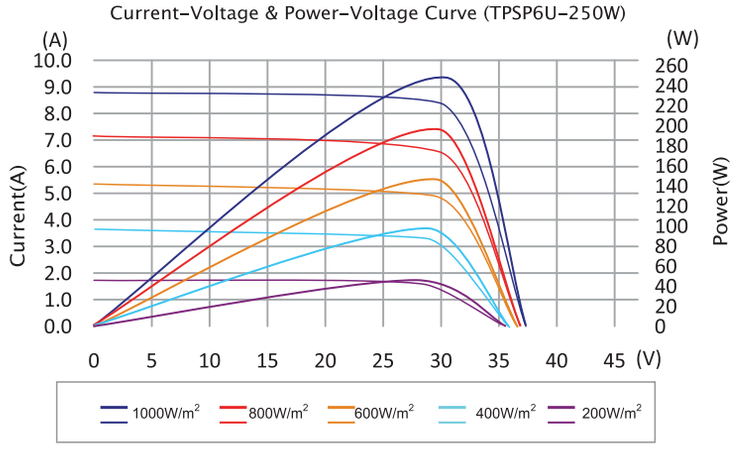
PERFORMANCE AT STANDARD TEST CONDITION (STC:1000W/m²,25°C,AM1.5)

Module Series	TPSP6U — Topray Universal				
Maximum Power at STC(Pmax)	240W	245W	250W	255W	260W
Short Circuit Current(Isc)	8.62A	8.69A	8.80A	8.88A	8.91A
Open Circuit Voltage(Voc)	36.90V	37.10V	37.20V	37.62V	37.73V
Maximum Power Current(Impp)	8.06A	8.14A	8.26A	8.40A	8.45A
Maximum Power Voltage(Vmpp)	29.80V	30.10V	30.30V	30.36V	30.77V
Encapsulated Cell Efficiency	16.44%	16.78%	17.12%	17.49%	17.82%
Module Efficiency	14.75%	15.06%	15.37%	15.70%	16.00%
Power Tolerance	0/+3%	0/+3%	0/+3%	0/+3%	0/+3%

PERFORMANCE AT NORMAL OPERATING CELL TEMPERATURE (NOCT:800W/M²,47±3°C,AM 1.5)

Maximum Power(Pmax)	176W	179W	183W	185W	187W
Short Circuit Current(Isc)	7.27A	7.33A	7.42A	7.51A	7.60A
Open Circuit Voltage(Voc)	34.20V	34.40V	34.50V	34.50V	34.50V
Maximum Power Current(Impp)	6.62A	6.69A	6.79A	6.82A	6.86A
Maximum Power Voltage(Vmpp)	26.50V	26.80V	27.00V	27.32V	27.68V

Current-Voltage & Power-Voltage Curve (TPSP6U-250W)



DEALER INFORMA TION BOX

QUALIFICATIONS AND CERTIFICATES

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

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

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