

Recommended For





TPS-P6U

Poly Crystalline Photovoltaic Module







- 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

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

Choosing Topray Solar

Professional solar producer and solutions provider since 1999, reliable partner of global distributors, installers and project integrators

The most vertically integrated solar manufacturer in the industry with production of ingots, wafer, solar cells and modules using both mono crystalline and poly crystalline

Manufacuring with international quality standards and environment management system: ISO 9001 and ISO

Global distribution with local warehousing, delivery and after sales services

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























OnGrid Crystalline-Standard

TPS-P6U(60)



MECHANICAL SPECIFICATION

Cell Type Poly crystalline156.75 x 156.75 mm

Number of cells 60(6x10)

Dimensions(AxBxC) 1648 x990 x35mm

Weights 17.5kg

Front Glass 3.2 mm Low iron tempered glass

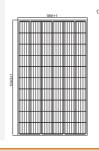
Frame Anodized aluminum

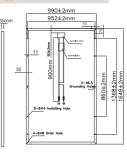
Junction Box IP 67, with bypass diodes

Connector MC4 compatible

Output Cables TÜV, length 900mm, 4.0mm²

MECHANICAL DRAWINGS





ELECTRICAL CHARACTERISTICS

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

Module Series	TPS-P6U(60)-280W
Maximum Power at STC(Pmax)	280W
Short Circuit Current(Isc)	9.38A
Open Circuit Voltage(Voc)	38.50V
Maximum Power Current(Impp)	9.0A
Maximum Power Voltage(Vmpp)	31.20V
Encapsulated Cell Efficiency	19.18%
Module Efficiency	17.16%
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(Pmax)

Short Circuit Current(Isc)

Open Circuit Voltage(Voc)

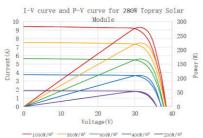
Maximum Power Current(Impp)

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%

TEMPERATURE CHARA	CTERISTICS

Maximum Power Voltage(Vmpp)

Nominal Operating Cel Temperature(NOCT)	44±2° 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



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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		

202.9W

7.65A 35.57V

7.06A

28.74V