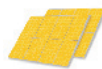


## Recommended For



Commercial Roof



Utility Scale Ground Mounted

## TPS-P6U Poly Crystalline Photovoltaic Module



- 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

## 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 technology

Manufacturing with international quality standards and environment management system: ISO 9001 and ISO 14001

Global distribution with local warehousing, delivery and after sales services

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

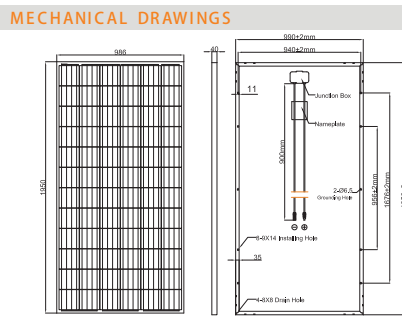
Most updated design with drainage holes in the frame ensures the modules to withstand various weather conditions



### QUALIFICATIONS AND CERTIFICATES



| MECHANICAL SPECIFICATION |                                       |
|--------------------------|---------------------------------------|
| Cell Type                | Poly crystalline 156.75x156.75 mm     |
| Number of cells          | 72(6x12)                              |
| Dimensions(AxBxC)        | 1956x990x40mm                         |
| Weights                  | 20.5kg                                |
| 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, 4.0mm <sup>2</sup> |



## ELECTRICAL CHARACTERISTICS

PERFORMANCE AT STANDARD TEST CONDITION(STC:1000W/m<sup>2</sup>, 25° C, AM1.5)

| Module Series                | TPS-P6U(72)-335W |
|------------------------------|------------------|
| Maximum Power at STC(Pmax)   | 335W             |
| Short Circuit Current(Isc)   | 9.29A            |
| Open Circuit Voltage(Voc)    | 46.1V            |
| Maximum Power Current(Imp)   | 8.93A            |
| Maximum Power Voltage(Vmp)   | 37.52V           |
| Encapsulated Cell Efficiency | 19.13%           |
| Module Efficiency            | 17.3%            |
| Power Tolerance              | 0/+3%            |

PERFORMANCE AT NORMAL OPERATING CELL TEMPERATURE  
(NOTE: I rradiance = 800 W/m<sup>2</sup>, Air Temperature = 20° C, Wind Velocity = 1 m/s)

|                            |         |
|----------------------------|---------|
| Maximum Power(Pmax)        | 242.80W |
| Short Circuit Current(Isc) | 7.58A   |
| Open Circuit Voltage(Voc)  | 42.60V  |
| Maximum Power Current(Imp) | 7.00A   |
| Maximum Power Voltage(Vmp) | 34.67V  |

The typical relative change in module efficiency at an irradiance of 200W/m<sup>2</sup> in relation to 1000W/m<sup>2</sup> ( 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 Pmax(γ)      | -0. 4%/K  |
| Temperature Coefficient of Voc(β)       | -0. 37%/K |
| Temperature Coefficient of Isc(α)       | 0. 05%/K  |

## PACKING CONFIGURATION

| Container            | 20'GP | 40'GP | 40'HQ |
|----------------------|-------|-------|-------|
| Pieces per container | 270   | 648   | 696   |

## 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              |

