

# TYN-165P61

High Quality  
Poly-Crystalline  
Photovoltaic Module



- Qualified, IEC 61215
- Safety tested, IEC 61730
- Periodic Inspection



## Feature

1. Bypass diode minimizes the power drop by shade.
2. The conversion efficiency of solar cell is above 14.12%.
3. White tempered glass, EVA resin, weather proof film and anodized aluminum frame. provide efficient protection from the severest environmental conditions.
4. Waterproof (UL94,V-O ). Perfect for grid applications.
5. Product guarantee 5 years.

## SPECIFICATION

| Type Of Module             | TYN-165P61 |
|----------------------------|------------|
| Maximum Power [W]          | 165        |
| Tolerance [%]              | ±5%        |
| Open circuit Voltage [V]   | 28.75      |
| Short circuit Current [A]  | 7.47       |
| Maximum Power Voltage [V]  | 23.66      |
| Maximum Power Current [A]  | 6.97       |
| Module Efficiency [%]      | 12.60      |
| Solar Cell Efficiency [%]  | 14.12      |
| Series Fuse Rating [A]     | 15         |
| Terminal Box               | IP65       |
| Maximum System Voltage [V] | DC1000     |
| Operating Temperature [°C] | -40 to 85  |

# Electrical Characteristics

Current-Voltage characteristics of cells at various irradiance levels

IV - Curve



| Electric Performance Typical Performance Characteristics |       |         |
|--|-------|---------|
| Short Circuit Current Temperature Coefficient            | mA/°C | +4.500  |
| Open Circuit Voltage Temperature Coefficient             | V/°C  | -0.100  |
| Maximum Power Temperature Coefficient                    | %/°C  | -0.4982 |
| Performance Warranty                                     |       |         |
| 90%output, 12Years                                       |       |         |
| 80%output, 25 Years                                      |       |         |

## Quality Assurance

1. Electrical insulation test.
2. Outdoor exposure test.
3. Hot-spot endurance test.
4. UV-exposure.
5. Thermal cycling test.
6. Humidity freeze test.
7. Damp heat test.
8. Robustness of terminations test.
9. Wet leakage current test.
10. Mechanical load test.
11. Hail impact test.
12. Bypass diode thermal test.

## Physical Specifications

### Dimension :

Length :

1316mm/51.81in

Width :

995mm/39.17in

Depth :

50mm/1.97in

Weight :

16.0 kg/pcs

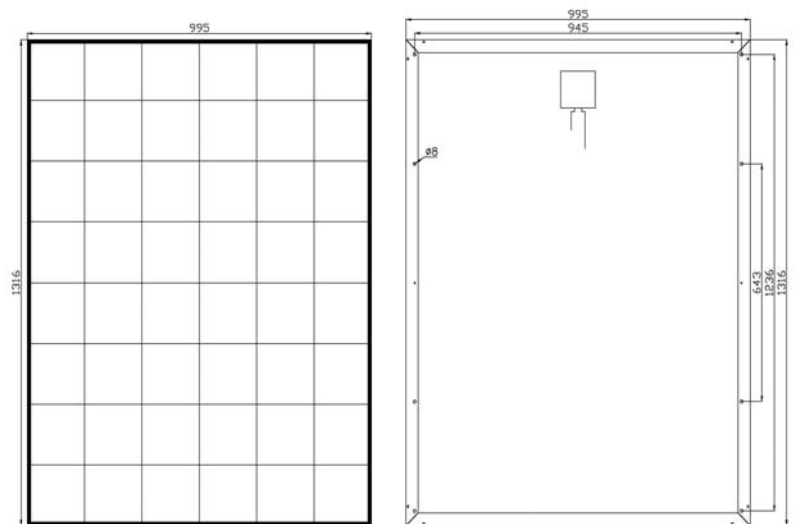
Packing :

10pcs/1 carton

Loading Capacity

320pcs/20ft Container

680pcs/40ft Container



## Tynsolar Corporation

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