



TYN-190P6

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 14.62%.
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-190P6
Maximum Power [W]	190
Tolerance [%]	±5%
Open circuit Voltage [V]	32.40
Short circuit Current [A]	7.72
Maximum Power Voltage [V]	26.78
Maximum Power Current [A]	7.09
Module Efficiency [%]	12.88
Solar Cell Efficiency [%]	14.62
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	-0.1125
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 :

1483mm/58.39in

Width :

995mm/39.17in

Depth :

50mm/1.97in

Weight :

18.5 kg/pcs

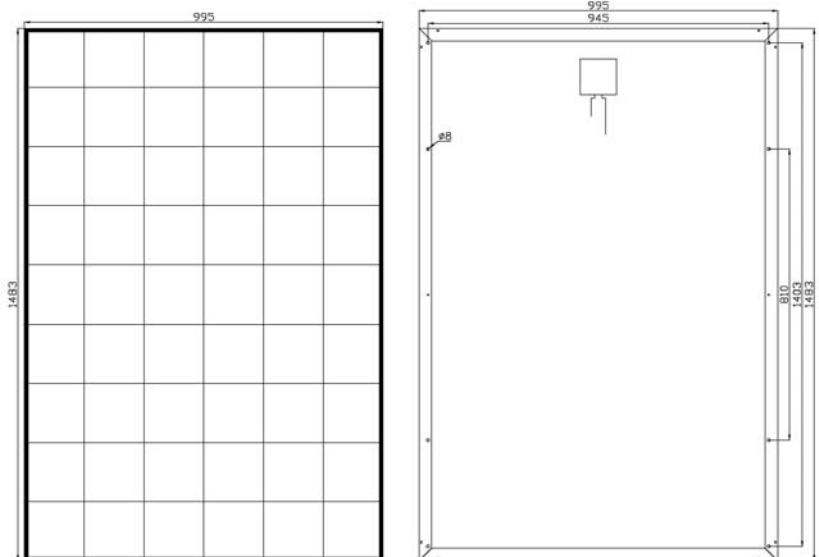
Packing :

10pcs/1 carton

Loading Capacity

280pcs/20ft Container

560pcs/40ft Container



Tynsolar Corporation

Chunan Fab: 1381 Ren-Ay Rd., Chunan Jenn, Miaulih 350, Taiwan R.O.C.

Wed site: <http://www.tynsolar.com.tw>

Tel : 886-37-580006

Fax: 886-37-586339