

# Solar Module

## 196Wp Multicrystalline silicon photovoltaic module

### PPV-196M6



1. Electrical insulation test.
2. Outdoor exposure test.
3. Hot-spot endurance test.
4. UV-exposure test
5. Thermal cycling.
6. Humidity freeze.
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.

#### ELECTRICAL CHARACTERISTICS

Maximum power (Pmax)	196W
Voltage @ Pmax (Vpm)	26.67V
Current @ Pmax (Ipm)	7.36A
Open circuit voltage (Voc)	32.5V
Short circuit current (Isc)	7.86A
Output tolerance	+/- 3%
Maximum system voltage	1000 Vdc
Series fuse rating	10A
Application	DC 24V system
system Cell	6" Multi-crystalline silicon
No. of cells and connections	54 PCS in series (6 x 9)
Efficiency of module	13.4 %
Temperature coefficient of Pmax	-0.38 %/°C
Temperature coefficient of Voc	-0.32 %/°C
Temperature coefficient of Isc	+0.08 %/°C

\* Measured at STC (Standard Test Condition; 1000W/m<sup>2</sup> irradiance, AM 1.5G and 25°C)

#### ABSOLUTE MAXIMUM RATINGS

Operating temperature	-40 to +85°C
Storage temperature	-40 to +85°C

#### MECHANICAL CHARACTERISTICS

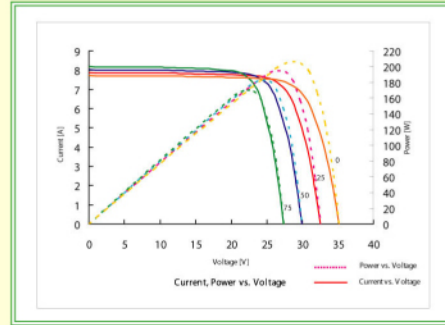
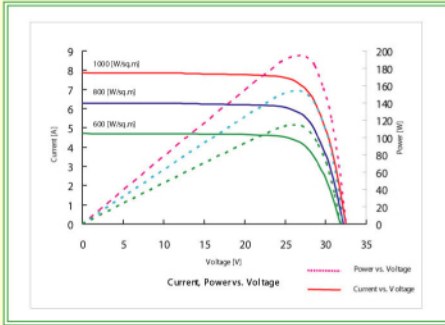
Dimension (WxLxH)	1474 x 995 x 50 mm
Weight	Approx. 18.6Kg
Packing configuration	Horizontal
Size of carton	1531 x 1071 x 995 mm
Pallet quantity	18 PCS / Pallet
Loading capacity (20 ft. container)	14 Pallet
Loading capacity (40 ft. container)	28 Pallet
Construction	Front: high transmission low-iron tempered glass, 3.2mm Back: PVF/PET/PVF Encapsulates: EVA
Junction box	IP65, weatherproof
Bypass diodes	3 diodes to avoid power decreasing by shade
Output cable	4mm <sup>2</sup> cable with polarized weatherproof connectors Negative 900mm, Positive 900mm
Frame	Clear anodized aluminum, AL6063-T5

PPV-196M6

# 196Wp Multicrystalline silicon photovoltaic module

## PPV-196M6

### I-V CURVES



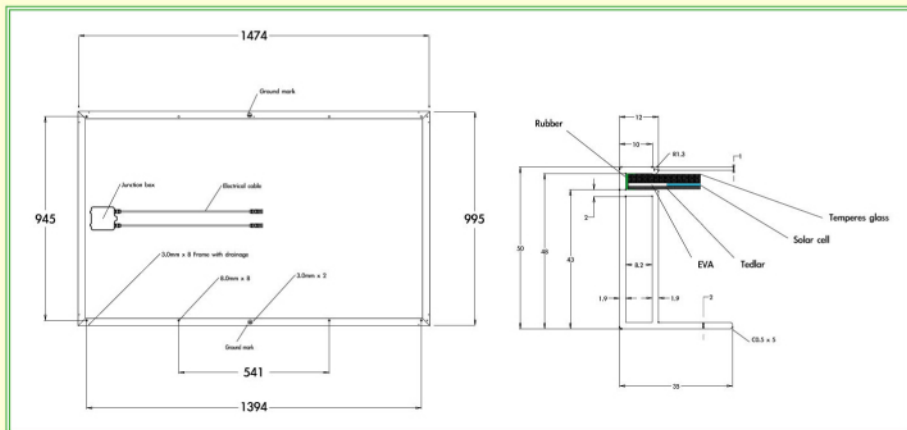
### QUALITY

ISO 9001:2000 certified; TÜV certified.  
IEC 61215 and Safety Class II standards are in progress by TÜV.  
Warranty: 10 years limited warranty of 90% power output and  
25 years limited warranty of 80% power output.

### INSTALL AND SAFETY GUIDE

**DO NOT** damage or scratch the rear surface of the module  
**DO NOT** handle or install modules when they are wet.  
**ONLY** qualified personnel should install or perform maintenance.  
**BE AWARE** of dangerous high DC voltage.

### MODULE DIMENSIONS



\*\* This document summarizes product specifications which are subject to change without prior notice.