

# Solar Module

## 182Wp Monocrystalline silicon photovoltaic module

### PPV-182S6



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.

PPV-182S6

#### ELECTRICAL CHARACTERISTICS

|                                 |                             |
|---------------------------------|-----------------------------|
| Maximum power (Pmax)            | 182W                        |
| Voltage @ Pmax (Vpm)            | 23.95V                      |
| Current @ Pmax (Ipm)            | 7.6A                        |
| Open circuit voltage (Voc)      | 29.32V                      |
| Short circuit current (Isc)     | 8.15A                       |
| Output tolerance                | +/- 3%                      |
| Maximum system voltage          | 1000 Vdc                    |
| Series fuse rating              | 10A                         |
| Application                     | DC 24V system               |
| system Cell                     | 6" Mono-crystalline silicon |
| No. of cells and connections    | 48 PCS in series (6 x 8)    |
| Efficiency of module            | 13.9 %                      |
| Temperature coefficient of Pmax | -0.37 %/°C                  |
| Temperature coefficient of Voc  | -0.34 %/°C                  |
| Temperature coefficient of Isc  | +0.09 %/°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 |

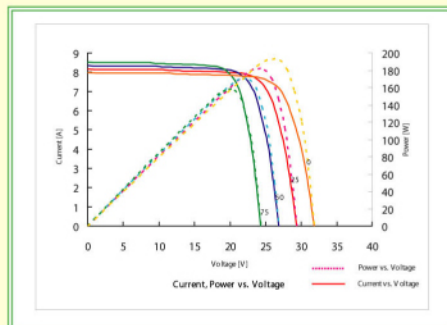
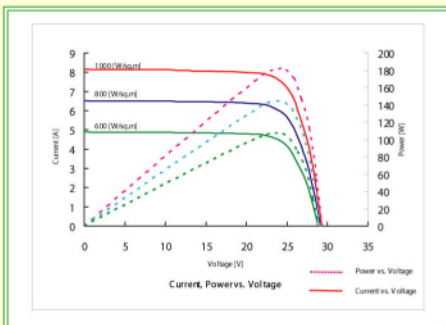
#### MECHANICAL CHARACTERISTICS

|                                     |  |
|-------------------------------------|--|
| Dimension (WxLxH)                   | 1316 x 995 x 50 mm   |
| Weight                              | Approx. 16.8Kg   |
| Packing configuration               | Horizontal   |
| Size of carton                      | 1373 x 1071 x 995 mm   |
| Pallet quantity                     | 18 PCS / Pallet  |
| Loading capacity (20 ft. container) | 16 Pallet  |
| Loading capacity (40 ft. container) | 32 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   |

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### I-V CURVES



### QUALITY

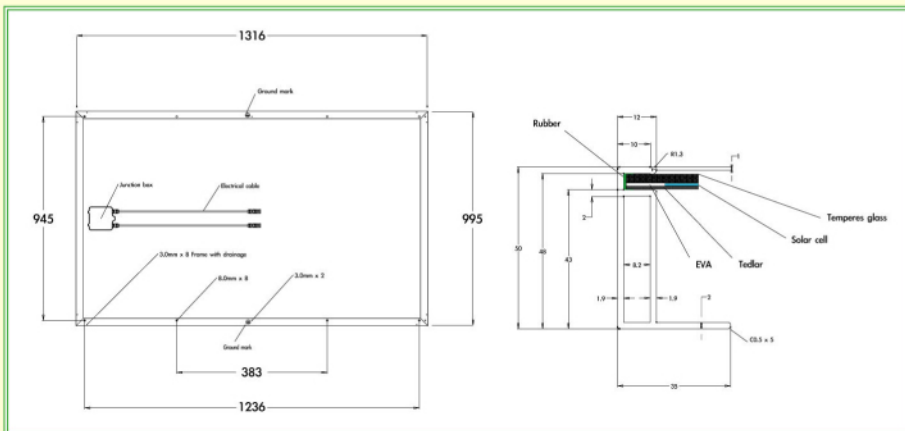
ISO 9001:2000 certified; TÜV certified.  
IEC 61215 and Safety Class II standards are in progress by TÜV.  
Warranty: 10 years limited warranty of 90% power output and 25 years limited warranty of 80% power output.

### 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.