

ES2-285P6

EdgeTech
SOLAR
INTERNATIONAL Ltd.



Features

Bypass diode minimizes the power drop by shade.

High conversion efficiency of solar cell.

White tempered glass, EVA resin, weather proof film and anodized aluminum frame provide efficient protection from the severest environmental conditions.

Waterproof (UL94,V-O) connector.

Perfect for grid applications.

Product guarantee 5 years.

EdgeTech Solar photovoltaic modules are produced in a ISO9001 qualified factory using the highest quality materials and excellent quality control. Each module must undergo an extensive series of performance tests putting the module under extreme electrical and mechanical conditions to assure each module meets or exceeds specifications for many years of reliable performance even in the most challenging of environments.

QUALITY COMPONENTS

HIGH PERFORMANCE

RELIABLE

DURABLE

25 YEAR WARRANTY

On the Edge of Today's
Energy Technology



ES2-285P6

ELECTRICAL CHARACTERISTICS

Type of Module	Poly crystalline
Maximum Power Rating (Pmax)	285 Watts
Maximum Power Tolerance ±	5 %
Open-Circuit Voltage (Voc)	44.21 Volts
Short-Circuit Current (Isc)	8.32 Amps
Maximum Power Voltage (Vmp)	36.79 Volts
Maximum Power Current (Imp)	7.75 Amps
Module Efficiency	14.61 %
Solar Cell Efficiency	16.37 %
Series Fuse Rating	15 Amps
Terminal Box	IP65
Maximum System Voltage	1000 Volts DC
Temperature Range	-40 to 85 °C
Nominal Voltage	24 Volts

TEMPERATURE COEFFICIENTS

Short-Circuit Current Temp Coefficient	+4.500 mA/°C
Open-Circuit Voltage Temp Coefficient	-0.1500 V/°C
Maximum Power Temp Coefficient	-0.4982 %/°C

MECHANICAL CHARACTERISTICS

Dimensions	1961x995x50 mm
Weight	24.0 kg
Packing	10pcs/1 carton
Loading Capacity Container	200/20ft 440/40ft

WARRANTY

Workmanship & Product Warranty	5 years
Power Output Warranty 12 years	90% Power
Power Output Warranty 25 years	80% Power

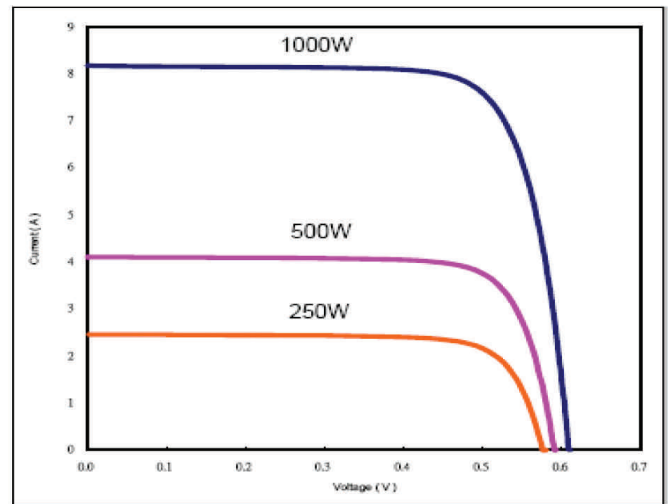
CERTIFICATIONS

ISO TUV

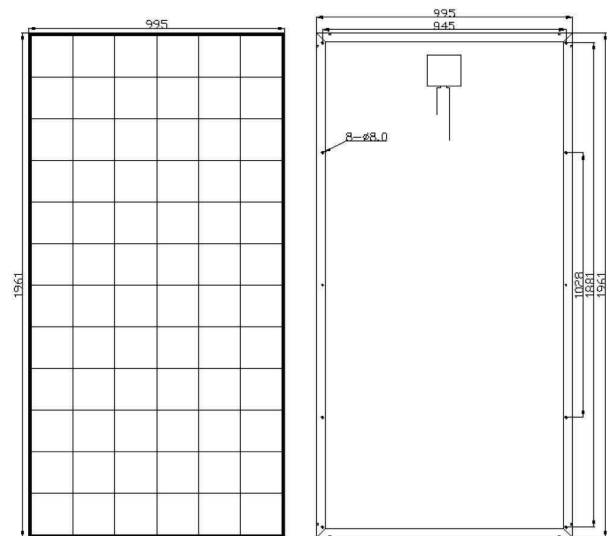


IV CURVES

Current-Voltage characteristics of cells at various irradiance levels



DIMENSIONS



QUALITY ASSURANCE TESTS

- Electrical Insulation
- Outdoor Exposure
- Hot-Spot Endurance
- UV-Exposure
- Thermal Cycling
- Humidity Freeze
- Damp Heat
- Robustness of Terminations
- Wet Leakage Current
- Mechanical Load
- Hail Impact
- Bypass Diode Thermal



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