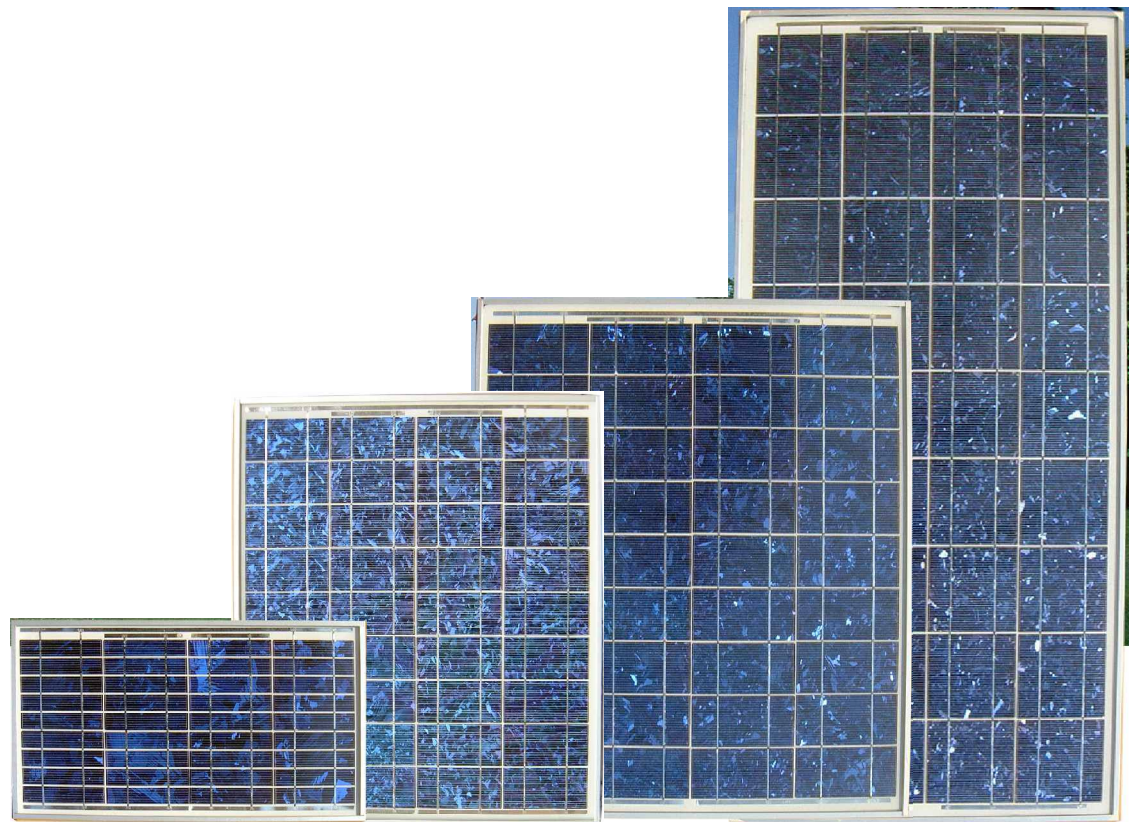


EKOPOWER green energy

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Certification:

ISO 9001



FEATURE:

High power module using multicrystalline solar cell.

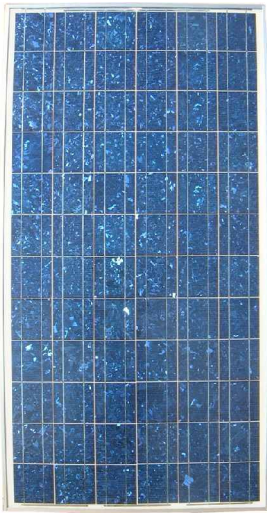
Bypass diode is attached to minimise power reduction caused by shade.

Using optical low iron tempered glass, EVA resin, module with aluminum frame for outdoor use.

Compliant with the requirements of IEC 61215.

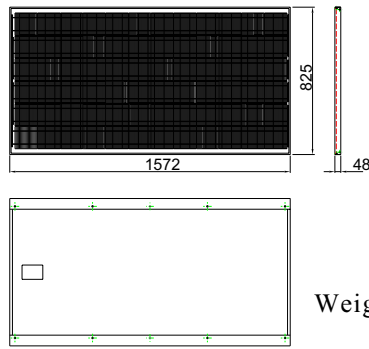
20 years warranty.

F-MSN-160W-M-01



High power module using 125mm multicrystalline solar cell.

Physical Specifications



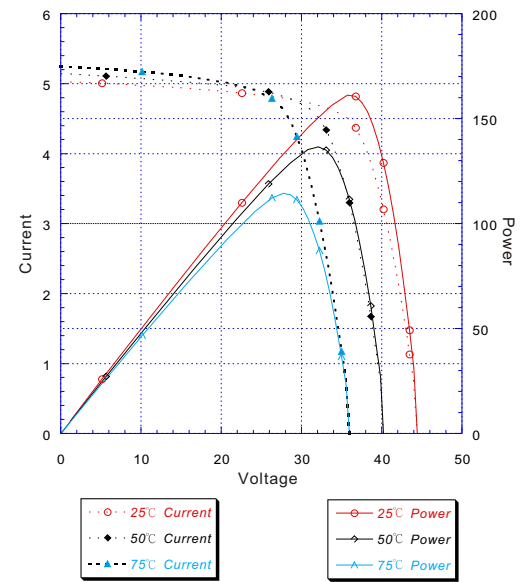
Weight:17kg

Electrical Specifications

Max Power	160 Watt
Max Power Voltage	36.0 Volts
Max Power Current	4.5 Amps
Open Circuit Voltage	44.0 Volts
Short Circuit Current	4.9 Amps

Note: The test conditions 1 kw/m², 25°C,AM1.5.

Electrical Characteristics



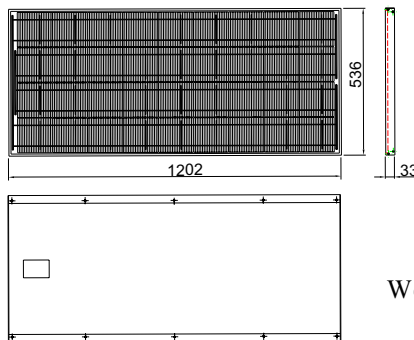
Current-Voltage characteristics of Photovoltaic Module at various cell temperature.

F-MSN-80W-M-01



High power module using 125mm multicrystalline solar cell.

Physical Specifications



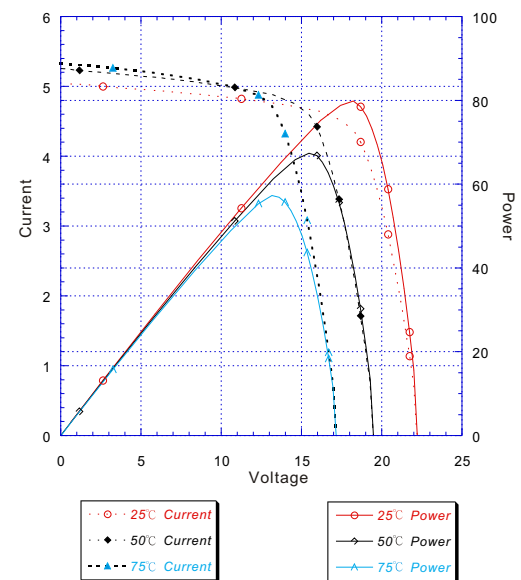
Weight:7.6kg

Electrical Specifications

Max Power	80 Watt
Max Power Voltage	18.0 Volts
Max Power Current	4.5 Amps
Open Circuit Voltage	22.0 Volts
Short Circuit Current	4.9 Amps

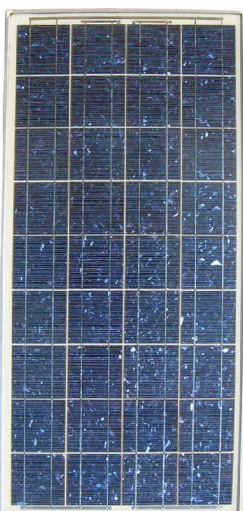
Note: The test conditions 1 kw/m², 25°C,AM1.5.

Electrical Characteristics



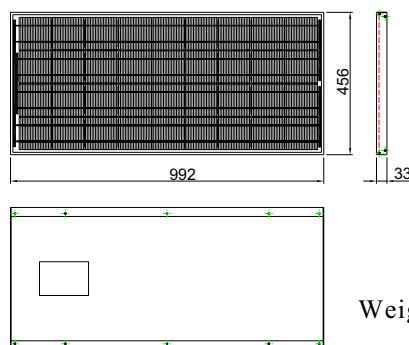
Current-Voltage characteristics of Photovoltaic Module at various cell temperature.

F-MSN-50W-M-01



High power module using 103mm multicrystalline solar cell.

Physical Specifications



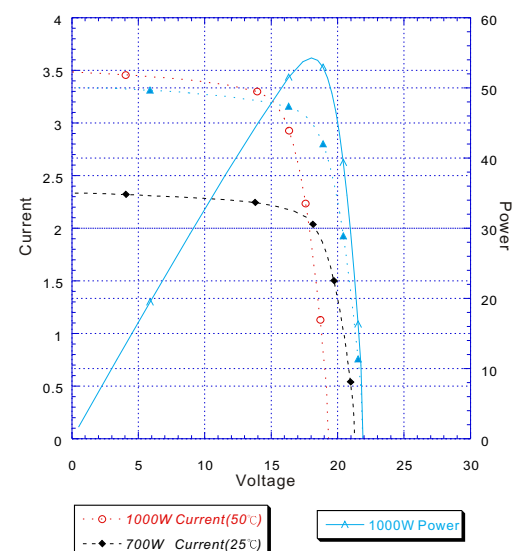
Weight:5.3kg

Electrical Specifications

Max Power	50 Watt
Max Power Voltage	17.3 Volts
Max Power Current	2.9 Amps
Open Circuit Voltage	21.7 Volts
Short Circuit Current	3.2 Amps

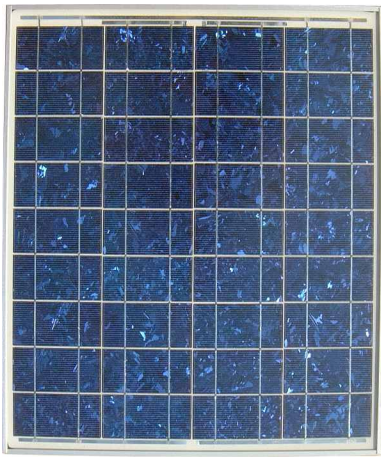
Note: The test conditions 1 kw/m², 25°C,AM1.5.

Electrical Characteristics



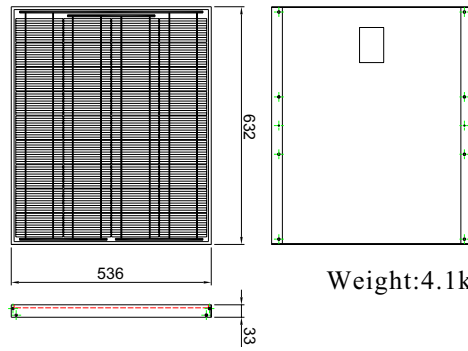
Current-Voltage characteristics of Photovoltaic Module at various cell temperature.

F-MSN-40W-M-01



High power module using half of 125mm multicrystalline solar cell.

Physical Specifications



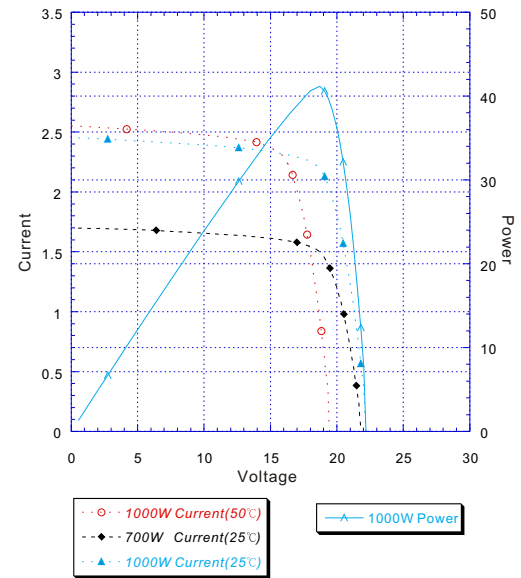
Weight:4.1kg

Electrical Specifications

Max Power	40 Watt
Max Power Voltage	18.0 Volts
Max Power Current	2.2 Amps
Open Circuit Voltage	22.0 Volts
Short Circuit Current	2.4 Amps

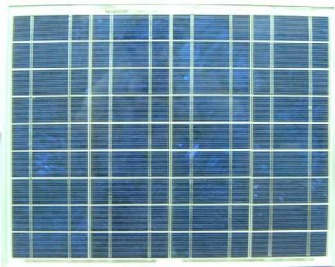
Note: The test conditions 1 kw/m², 25°C,AM1.5.

Electrical Characteristics



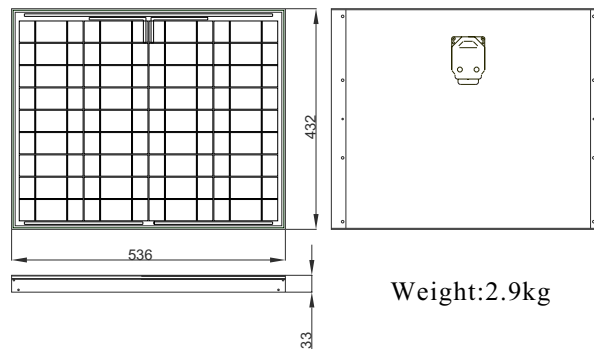
Current-Voltage characteristics of Photovoltaic Module at various cell temperature.

F-MSN-25W-M-01



High power module using 1/3 of 125mm multicrystalline solar cell.

Physical Specifications



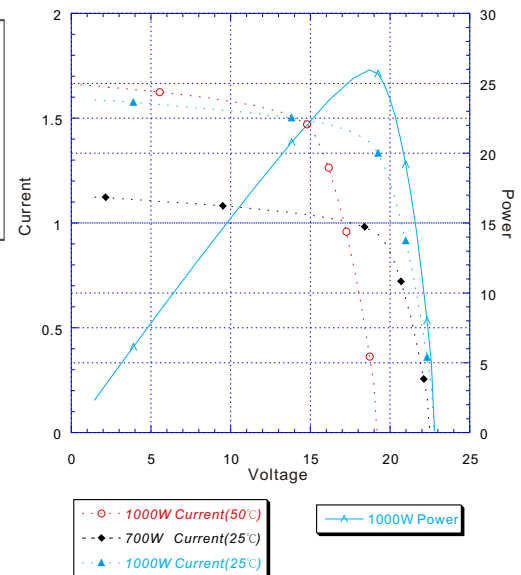
Weight:2.9kg

Electrical Specifications

Max Power	25 Watt
Max Power Voltage	17.3 Volts
Max Power Current	1.45 Amps
Open Circuit Voltage	21.7 Volts
Short Circuit Current	1.61 Amps

Note: The test conditions 1 kw/m², 25°C,AM1.5.

Electrical Characteristics



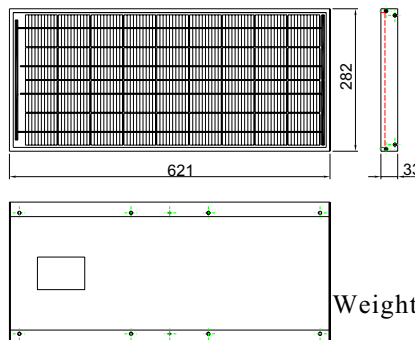
Current-Voltage characteristics of Photovoltaic Module at various cell temperature.

F-MSN-20W-M-01



High power module using 1/4 of 125mm multicrystalline solar cell.

Physical Specifications



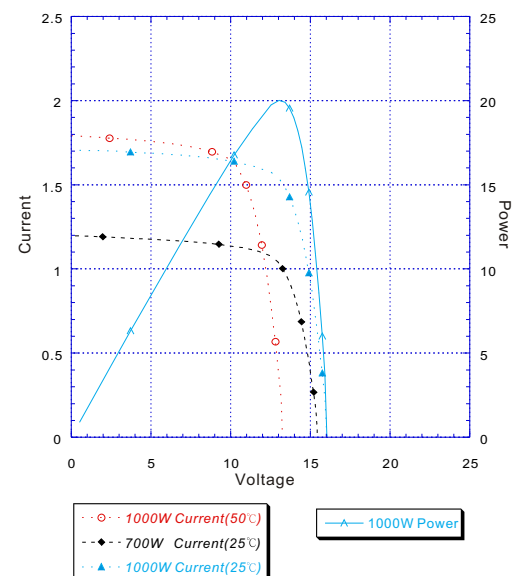
Weight:2.5kg

Electrical Specifications

Max Power	20 Watt
Max Power Voltage	17.3 Volts
Max Power Current	1.2 Amps
Open Circuit Voltage	21.7 Volts
Short Circuit Current	1.2 Amps

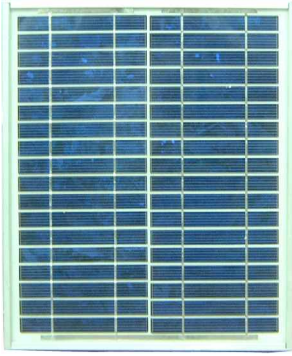
Note: The test conditions 1 kw/m², 25°C,AM1.5.

Electrical Characteristics



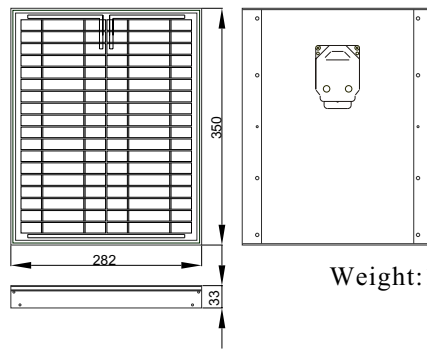
Current-Voltage characteristics of Photovoltaic Module at various cell temperature.

F-MSN-10W-M-01



High power module using 1/8 of 125mm multicrystalline solar cell.

Physical Specifications



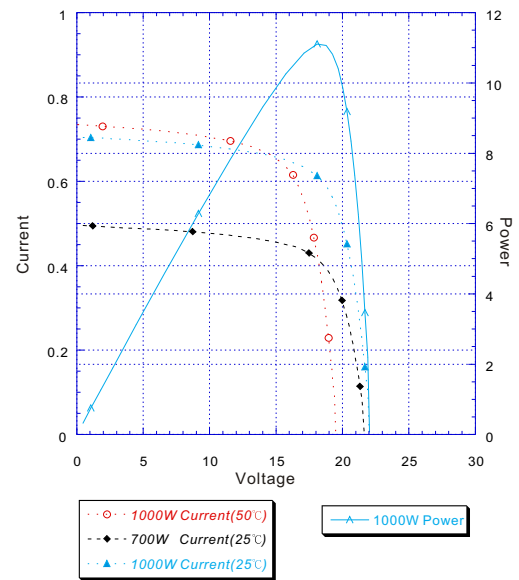
Weight: 1.5kg

Electrical Specifications

Max Power	10 Watt
Max Power Voltage	17.3 Volts
Max Power Current	0.58 Amps
Open Circuit Voltage	21.7 Volts
Short Circuit Current	0.64 Amps

Note: The test conditions 1 kw/m², 25°C, AM1.5.

Electrical Characteristics



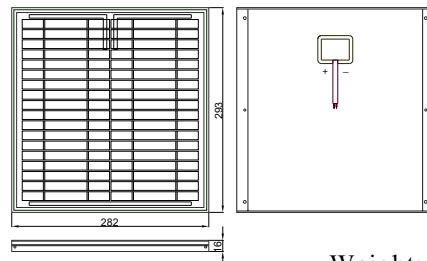
Current-Voltage characteristics of Photovoltaic Module at various cell temperature.

F-MSN-8W-M-05



High power module using 1/10 of 125mm multicrystalline solar cell.

Physical Specifications



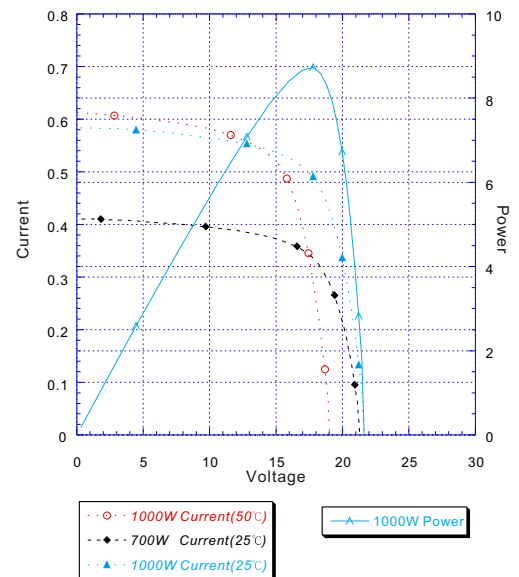
Weight: 1.2kg

Electrical Specifications

Max Power	8 Watt
Max Power Voltage	17.3 Volts
Max Power Current	0.48 Amps
Open Circuit Voltage	21.7 Volts
Short Circuit Current	0.54 Amps

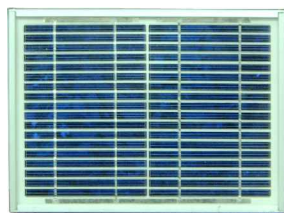
Note: The test conditions 1 kw/m², 25°C, AM1.5.

Electrical Characteristics



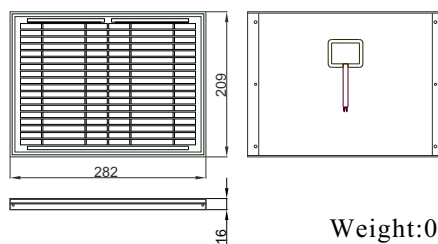
Current-Voltage characteristics of Photovoltaic Module at various cell temperature.

F-MSN-5W-M-01



High power module using 1/16 of 125mm multicrystalline solar cell.

Physical Specifications



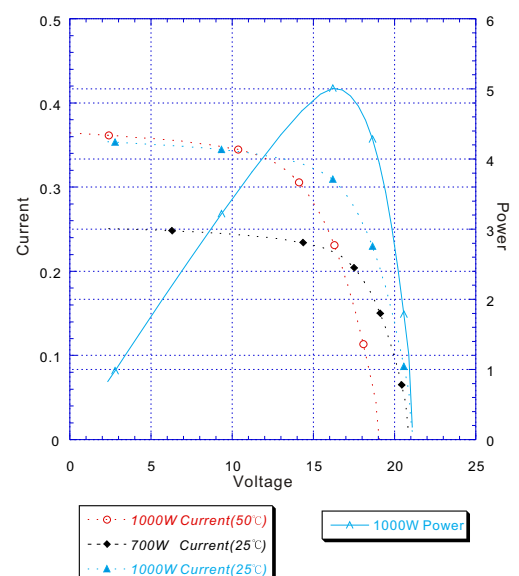
Weight: 0.73kg

Electrical Specifications

Max Power	5 Watt
Max Power Voltage	17.3 Volts
Max Power Current	0.29 Amps
Open Circuit Voltage	21.7 Volts
Short Circuit Current	0.32 Amps

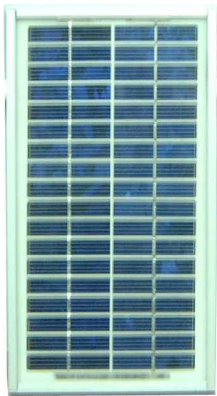
Note: The test conditions 1 kw/m², 25°C, AM1.5.

Electrical Characteristics



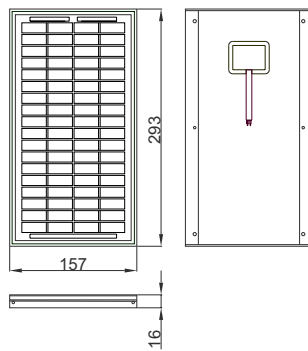
Current-Voltage characteristics of Photovoltaic Module at various cell temperature.

F-MSN-4W-M-01



High power module using 1/20 of 125mm multicrystalline solar cell .

Physical Specifications



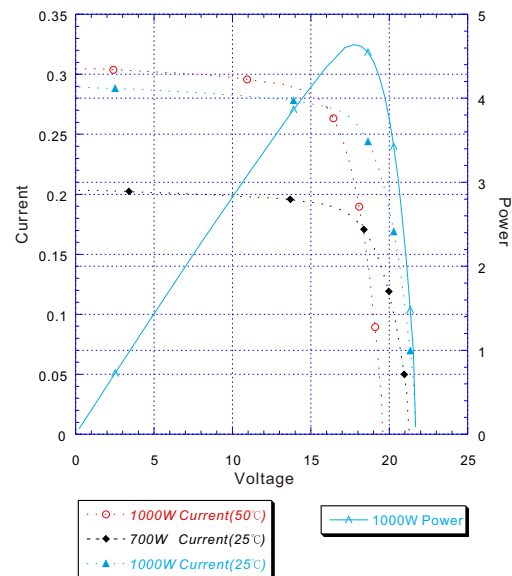
Weight:0.65kg

Electrical Specifications

Max Power	4 Watt
Max Power Voltage	17.3 Volts
Max Power Current	0.24 Amps
Open Circuit Voltage	21.7 Volts
Short Circuit Current	0.27 Amps

Note: The test conditions 1 kw/m², 25°C,AM1.5.

Electrical Characteristics



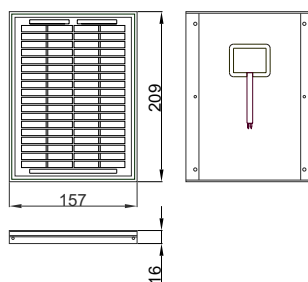
Current-Voltage characteristics of Photovoltaic Module at various cell temperature.

F-MSN-2.5W-M-01



High power module using 1/32 of 103mm multicrystalline solar cell .

Physical Specifications



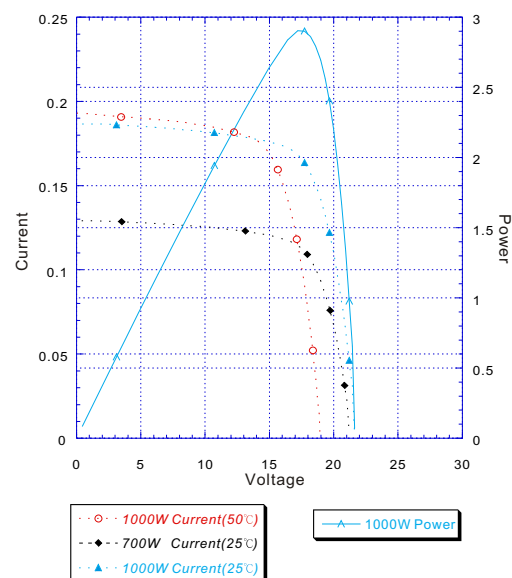
Weight:0.45kg

Electrical Specifications

Max Power	2.5 Watt
Max Power Voltage	17.3 Volts
Max Power Current	0.14 Amps
Open Circuit Voltage	21.7 Volts
Short Circuit Current	0.16 Amps

Note: The test conditions 1 kw/m², 25°C,AM1.5.

Electrical Characteristics



Current-Voltage characteristics of Photovoltaic Module at various cell temperature.

Quality Assurance:

- Thermal Cycling test
- Thermal shock test
- Thermal/Freezing and high humidity cycling test
- Electrical isolation test
- Hail impact test

- Mechanical, wind and twist loading test
- Salt mist test
- Light and water-exposure test
- Field exposure test
- Moist carbon dioxide/sulphur dioxide