



**MONOCRYSTALLINE SOLAR PANELS RANGE
FROM INDIA**

EPM175W, EPM200W, EP290W, EP350W
www.eaplworld.com

SOLAR PANEL

175W / 12V

200W, 290W, 350W / 24V



Back view



As the world's leading solar product company and provider of smart solar energy solutions, Eastman is the active contributor in shaping the solar revolution. We offer world-class and affordable solar energy products at even the remotest locations making solar energy affordable and available for everyone.

We are the largest solar module supplier across the globe and have pushed the Solar industry forward by manufacturing high-efficiency module and comprehensive electronic procurement construction solutions. As you start your solar journey with us, you'll turn your global footprint into a step towards the clean, green and sustainable future.

KEY FEATURES



Positive tolerance

Guaranteed tolerance +3%
Reliable power output



High module efficiency

Module Efficiency up to
17.51%



Strong Compressive Strength

Certified to withstand high wind of
2400Pa And snow loads of 5400 Pa



Fire test approved

Application class A, Safety Class II,
Fire rating C



Excellent performance under Extreme condition

High salt mist & ammonia resistance



Reliable quality forever

Without potential induced
Degradation (PID-free)



They have the best quality solar cells which make the solar panels highly efficient. The cells are laminated between UV resistance polymer (EVA) and high transmission toughen glass surface, which helps in extended the life of solar panels and lessen the power degradation.

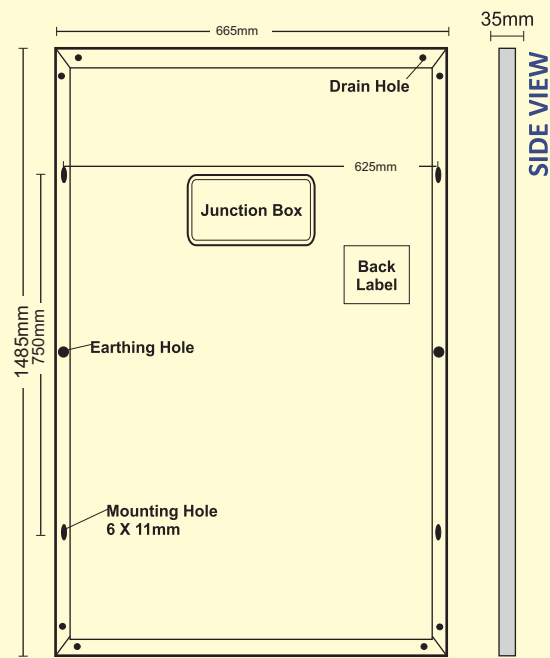


They are able to withstand extreme and harsh weather conditions and have a long life.

FEATURES

- 1 maximum power generation to help you make more solar money
- 2 shock resistance thick iron glass to help you cut down on solar wastage.
- 3 high grade solar cells to give you long lasting solar panels.
- 4 best qualities raw material to give you best performance even in extreme weather conditions
- 5 anodized aluminum frame gives freedom from maintenance.

Dimensions (in mm)



SOLAR PV MODULE 175W

Technical Data

PERFORMANCE UNDER STANDARD TEST CONDITIONS (STC) (irradiance of 1000 W/m², spectrum AM 1.5 and cell temperature of 25°C.)

| | |
|---------------------------------|-------|
| Nominal Maximum Power (Pmax) | 175W |
| Optimum Operating Voltage (Vmp) | 19.84 |
| Optimum Operating Current (Imp) | 8.86 |
| Open Circuit Voltage (Voc) | 23.58 |
| Short Circuit Current (Isc) | 9.28 |
| Module Eff(%) | 17.72 |

Mechanical Specifications

| | |
|--------------------------------|-----------|
| Dimensions (Length in mm) | 1485 |
| Dimensions (W X T in mm) | 665X35 |
| Weight(kg) | 10.78 |
| No Of Cell | 36 |
| Cell Arrangement | 9X4 |
| Front Cover (Tempered Glass) | 3.2 |
| Encapsulate | EVA |
| Back Cover | Backsheet |
| Junction Box with Bypass diode | 2 |
| Application Class Rating | Class A |
| Safety Class Rating | Class II |
| Mounting Holes Pitch (Y)-mm | 750 |
| Mounting Holes Pitch (X)-mm | 625 |

TEMPERATURE COEFFICIENTS

| | |
|--|------------|
| Current Temperature Coefficients $\alpha(Isc)$: | 0.021%/°C |
| Voltage Temperature Coefficients $\beta(Voc)$: | -0.291%/°C |
| Power Temperature Coefficients $\gamma(Pmax)$: | -0.397%/°C |

MAXIMUM OPERATING CONDITIONS

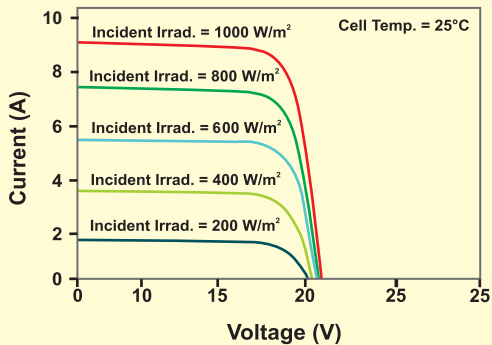
| | |
|-----------------------------|----------------|
| Operating Temperature: | -40°C to +85°C |
| Maximum System Voltage: | 1000V |
| Maximum Series Fuse Rating: | 20A |

Caution: Please read safety and installation instructions before using the product.

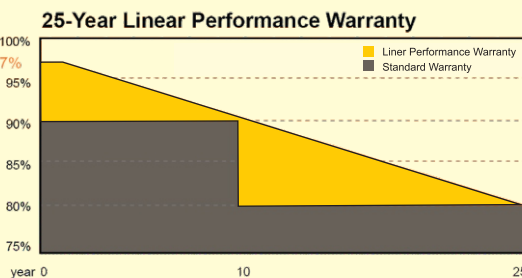
***Warranty:** Linear power warranty for 25 years with 2.5% for 1st year degradation and 0.67% from year 2 to year 25. Please read Eastman warranty documents thoroughly.

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I-V Curve



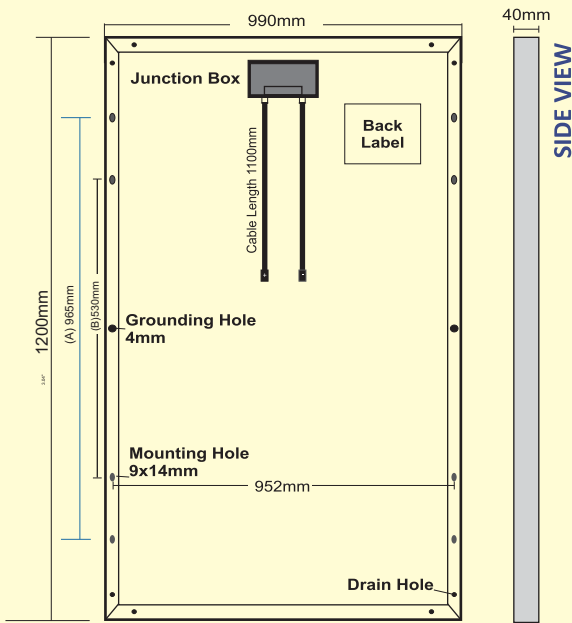
Liner Power Performance Warranty



Packing Dimensions (For Export)

| | | |
|---------------------|--------|--------|
| Container | 20' GP | 40' HC |
| Pallet / Container | 14 | 45 |
| Modules / Container | 630 | 1350 |

Dimensions (in mm)



SOLAR PV MODULE 200W

Technical Data

PERFORMANCE UNDER STANDARD TEST CONDITIONS (STC)

(irradiance of 1000 W/m², spectrum AM 1.5 and cell temperature of 25°C.)

| | |
|---------------------------------|-------|
| Nominal Maximum Power (Pmax) | 200W |
| Optimum Operating Voltage (Vmp) | 36.40 |
| Optimum Operating Current (Imp) | 5.50 |
| Open Circuit Voltage (Voc) | 44.50 |
| Short Circuit Current (Isc) | 5.91 |
| Module Eff(%) | 17.78 |

Mechanical Specifications

| | |
|--------------------------------|----------------|
| Dimensions (Length in mm) | 1200 |
| Dimensions (W X T in mm) | 990X40 |
| Weight(kg) | 14.50 |
| No Of Cell | 72 |
| Cell Arrangement | 12X6 |
| Front Cover (Tempered Glass) | 3.2 |
| Encapsulate | EVA |
| Back Cover | Backsheet |
| Junction Box with Bypass diode | 3 |
| Application Class Rating | Class A |
| Safety Class Rating | Class II |
| Mounting Holes Pitch (Y)-mm | (A)965, (B)530 |
| Mounting Holes Pitch (X)-mm | 952 |

TEMPERATURE COEFFICIENTS

| | |
|--|------------|
| Current Temperature Coefficients $\alpha(Isc)$: | 0.021%/°C |
| Voltage Temperature Coefficients $\beta(Voc)$: | -0.291%/°C |
| Power Temperature Coefficients $\gamma(Pmax)$: | -0.397%/°C |

MAXIMUM OPERATING CONDITIONS

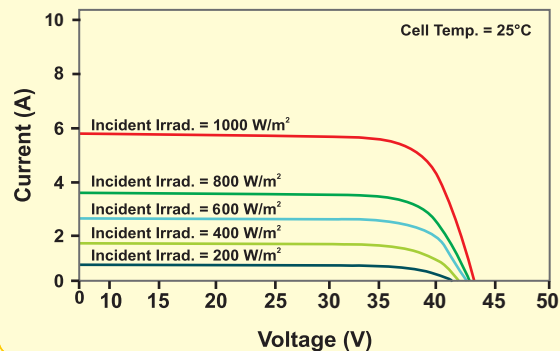
| | |
|-----------------------------|----------------|
| Operating Temperature: | -40°C to +85°C |
| Maximum System Voltage: | 1000V |
| Maximum Series Fuse Rating: | 20A |

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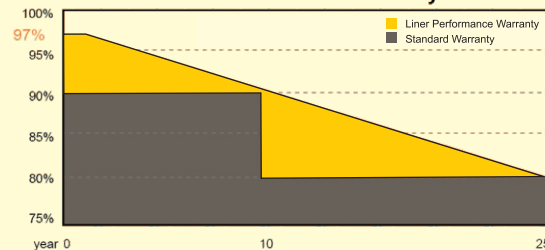
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I-V Curve



Liner Power Performance Warranty

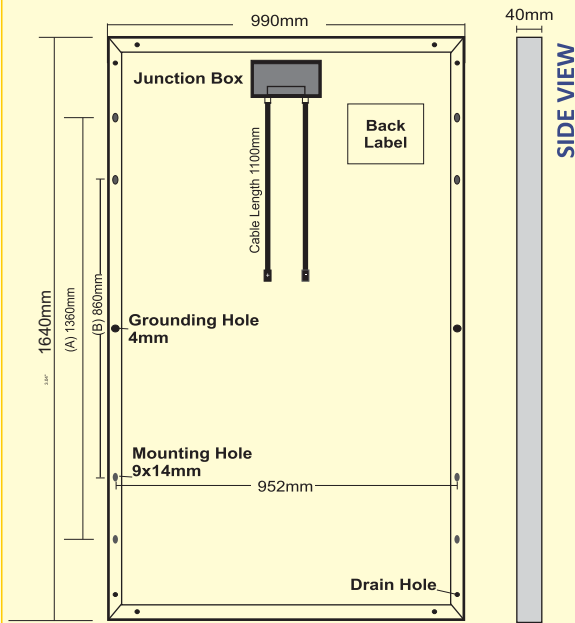
25-Year Linear Performance Warranty



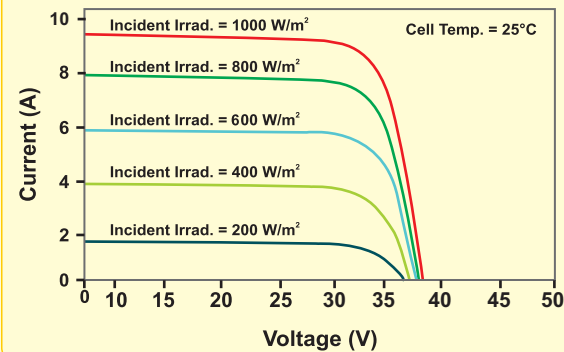
Packing Dimensions (For Export)

| | | |
|---------------------|--------|--------|
| Container | 20' GP | 40' HC |
| Pallet / Container | 14 | 45 |
| Modules / Container | 630 | 1350 |

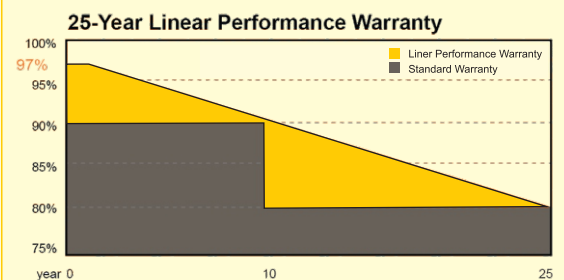
Dimensions (in mm)



I-V Curve



Liner Power Performance Warranty



Packing Dimensions (For Export)

| Container | 20' GP | 40' HC |
|---------------------|--------|--------|
| Pallet / Container | 14 | 28 |
| Modules / Container | 400 | 840 |

SOLAR PV MODULE 290W

Technical Data

PERFORMANCE UNDER STANDARD TEST CONDITIONS (STC)

(irradiance of 1000 W/m², spectrum AM 1.5 and cell temperature of 25°C.)

| | |
|--|-------|
| Nominal Maximum Power (P _{max}) | 290W |
| Optimum Operating Voltage (V _{mp}) | 33.00 |
| Optimum Operating Current (I _{mp}) | 8.81 |
| Open Circuit Voltage (V _{oc}) | 39.24 |
| Short Circuit Current (I _{sc}) | 9.25 |
| Module Eff(%) | 17.86 |

PERFORMANCE UNDER NOCT

(NOCT irradiances of 800 W/m², ambient temperature of 20°C, Wind speed 1m/sec)

| | |
|--|--------|
| Nominal Maximum Power (P _{max}) | 217.1W |
| Optimum Operating Voltage (V _{mp}) | 28.80 |
| Optimum Operating Current (I _{mp}) | 7.54 |
| Open Circuit Voltage (V _{oc}) | 36.60 |
| Short Circuit Current (I _{sc}) | 8.06 |

Mechanical Specifications

| | |
|--------------------------------|----------------|
| Dimensions (Length in mm) | 1640 |
| Dimensions (W X T in mm) | 990X40 |
| Weight(kg) | 19.20 |
| No Of Cell | 60 |
| Cell Arrangement | 10X6 |
| Front Cover (Tempered Glass) | 3.2 |
| Encapsulate | EVA |
| Back Cover | Backsheet |
| Junction Box with Bypass diode | 3 |
| Application Class Rating | Class A |
| Safety Class Rating | Class II |
| Mounting Holes Pitch (Y)-mm | (A)1360 (B)860 |
| Mounting Holes Pitch (X)-mm | 952 |

TEMPERATURE COEFFICIENTS

| | |
|--|------------|
| Current Temperature Coefficients α(I _{sc}) : | 0.021%/°C |
| Voltage Temperature Coefficients β(V _{oc}) : | -0.291%/°C |
| Power Temperature Coefficients γ(P _{max}) : | -0.397%/°C |

MAXIMUM OPERATING CONDITIONS

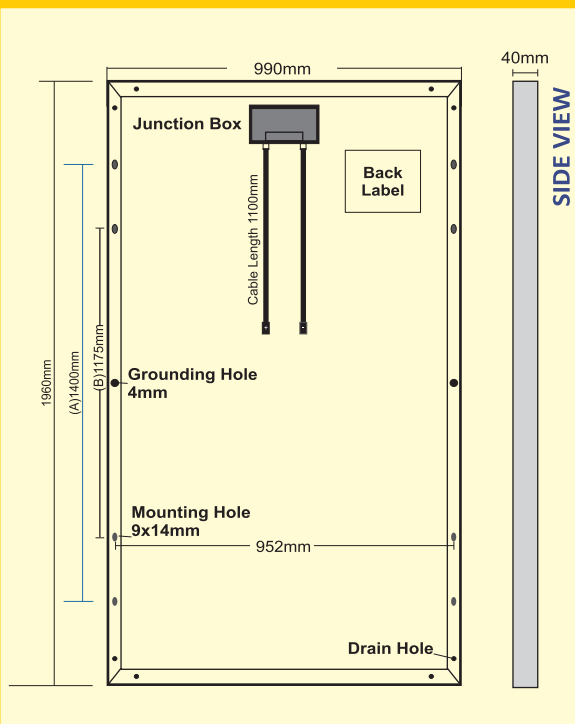
| | |
|-----------------------------|----------------|
| Operating Temperature: | -40°C to +85°C |
| Maximum System Voltage: | 1000V |
| Maximum Series Fuse Rating: | 20A |

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Dimensions (in mm)



SOLAR PV MODULE 350W

Technical Data

PERFORMANCE UNDER STANDARD TEST CONDITIONS (STC)

(irradiance of 1000 W/m², spectrum AM 1.5 and cell temperature of 25°C.)

| | |
|---------------------------------|-------|
| Nominal Maximum Power (Pmax) | 350W |
| Optimum Operating Voltage (Vmp) | 39.48 |
| Optimum Operating Current (Imp) | 8.87 |
| Open Circuit Voltage (Voc) | 46.94 |
| Short Circuit Current (Isc) | 9.34 |
| Module Eff(%) | 18.03 |

PERFORMANCE UNDER NOCT

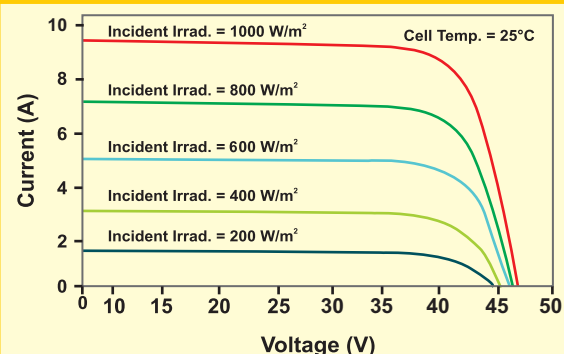
(NOCT irradiances of 800 W/m², ambient temperature of 20°C, Wind speed 1m/sec)

| | |
|---------------------------------|-------|
| Nominal Maximum Power (Pmax) | 262W |
| Optimum Operating Voltage (Vmp) | 37.20 |
| Optimum Operating Current (Imp) | 7.05 |
| Open Circuit Voltage (Voc) | 46.00 |
| Short Circuit Current (Isc) | 7.46 |

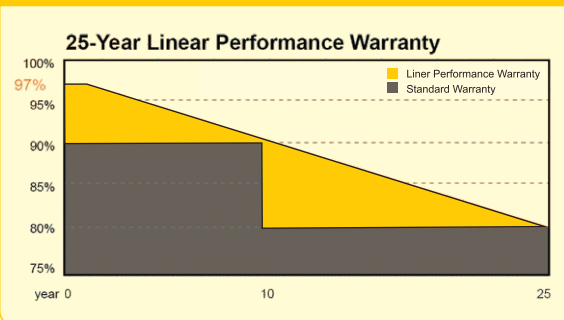
Mechanical Specifications

| | |
|--------------------------------|------------------|
| Dimensions (Length in mm) | 1960 |
| Dimensions (W X T in mm) | 990X40 |
| Weight(kg) | 21.48 |
| No Of Cell | 72 |
| Cell Arrangement | 12X6 |
| Front Cover (Tempered Glass) | 3.2 |
| Encapsulate | EVA |
| Back Cover | Backsheet |
| Junction Box with Bypass diode | 3 |
| Application Class Rating | Class A |
| Safety Class Rating | Class II |
| Mounting Holes Pitch (Y)-mm | (A)1400, (B)1175 |
| Mounting Holes Pitch (X)-mm | 952 |

I-V Curve



Liner Power Performance Warranty



Packing Dimensions (For Export)

| | | |
|---------------------|--------|--------|
| Container | 20' GP | 40' HC |
| Pallet / Container | 10 | 24 |
| Modules / Container | 300 | 720 |

TEMPERATURE COEFFICIENTS

| | |
|--|------------|
| Current Temperature Coefficients $\alpha(Isc)$: | 0.021%/°C |
| Voltage Temperature Coefficients $\beta(Voc)$: | -0.291%/°C |
| Power Temperature Coefficients $\gamma(Pmax)$: | -0.397%/°C |

MAXIMUM OPERATING CONDITIONS

| | |
|-----------------------------|----------------|
| Operating Temperature: | -40°C to +85°C |
| Maximum System Voltage: | 1000V |
| Maximum Series Fuse Rating: | 20A |

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**MONOCRYSTALLINE SOLAR PANELS RANGE
FROM INDIA**



EPM350W | EPM175W | EPM200W | EPM290W



CORPORATE OFFICE

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