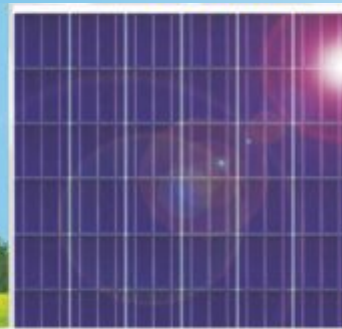
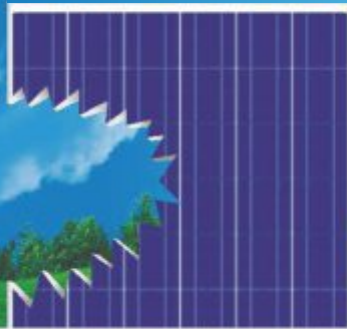


# Negative Tolerance is Biting into your Profits

Most panels

ECO series by PV Power Tech



**-0/+3% Positive Tolerance**

**Higher Returns with Positive Tolerance**



**PV POWER TECH**

Energizing a sustainable future!



Email: [info@pvpowertech.com](mailto:info@pvpowertech.com)

Web: [www.pvpowertech.com](http://www.pvpowertech.com)

- ★ High Performance Modules with Efficiency up to 15.35%
- ★ Long Term Reliability
- ★ DLG certified for long term ammonia exposure
- ★ IEC 61701 certified salt mist corrosion resistant
- ★ IEC 61215 & 61730 certified
- ★ High Resistance to mechanical loads/snow loads upto 5400 PA
- ★ 10 years limited Product Guarantee
- ★ Positive Power Tolerance -0 /+3%

**Premium Quality:** PV Power Tech, modules are manufactured using state-of-the-art automated manufacturing processes that ensure consistency in production and high quality standards. Our manufacturing standards adhere to the strict guidelines laid down by ISO 9001 certifications.

**Certifications:** ECO Series panels are certified for industry standard IEC 61215 (design and performance) and IEC 61730 (Safety Class II) certifications by TUV Intercert.

**Flexible Applications:** Our panels are suitable for a wide range of applications – from individual homes to industrial roofs and ground-mounted systems. They are compatible with all industry standard mounting systems as well as inverters. The ECO series is available as both framed and laminates and is designed for ease of installation. Additionally, customization with black back sheet and black frames is also offered for an aesthetically appealing product.

**Corrosion Resistance:** The ECO series has been tested by TUV for IEC 61701 proving its resistance to salt, mist & corrosion and can be installed in areas with salty air, especially near sea.

**Reliability:** The ECO series panels are backed by a standard 10 years limited manufacturing warranty and power warranties of 90% of the minimum output power for 10 years and 80% of the minimum output power for 25 years<sup>2</sup>.



<sup>2</sup>Note

1. PV Power Tech reserves the right to change the specification without prior notice.
2. All measurements and warranty/guarantee applicability under standard test conditions (1000W/m<sup>2</sup>, 25°C, AM 1.5)



**PV POWER TECH**

## Electrical Characteristics:

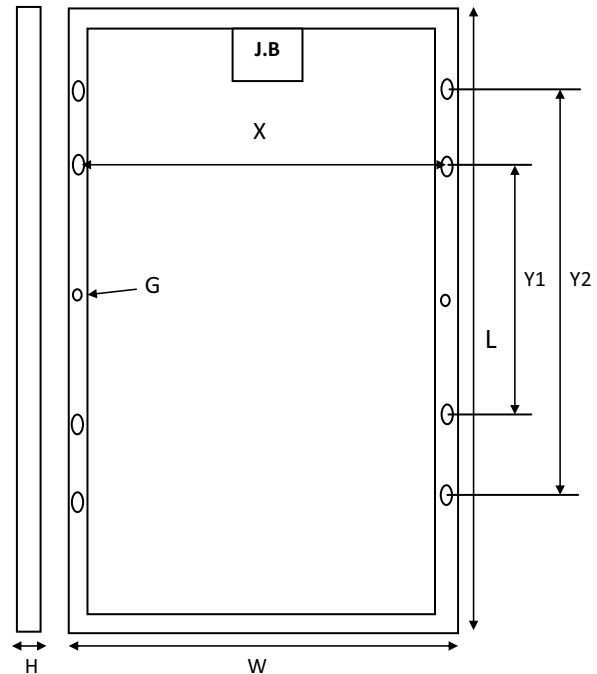
Model Name	ECO 270	ECO 275	ECO 280	ECO 285	ECO 290	ECO 295	ECO 300
Cell Configurations (Nos.)	12 x 6 (72)						
Pmax (W) (Tolerance: +3% , -0)	270	275	280	285	290	295	300
Voc (V) (Tolerance ±3%)	43.20	43.50	43.70	43.80	44.00	44.25	44.45
Isc (A) (Tolerance ±3%)	8.08	8.15	8.21	8.30	8.40	8.48	8.55
Vmax (V) (Tolerance ±3%)	35.62	35.85	36.05	36.25	36.55	36.75	37.10
Imax (A) (Tolerance ±3%)	7.59	7.68	7.78	7.87	7.94	8.03	8.09
Module Efficiency (%)	13.9	14.2	14.4	14.7	15.0	15.2	15.5
Maximum System Voltage (DC)	1000						
Series Fuse Rating (A)	15						
Nominal Operating Cell Temp. (°C)	44.6						
Temp. Coefficient of Pmax (%/°C)	-0.45						
Temp. Coefficient of Voc (%/°C)	-0.36						
Temp. Coefficient of Isc (%/°C)	0.043						

Electrical values measured at STC: 25°C, 1.5AM, 1000 W/m<sup>2</sup>

## Mechanical Characteristics:

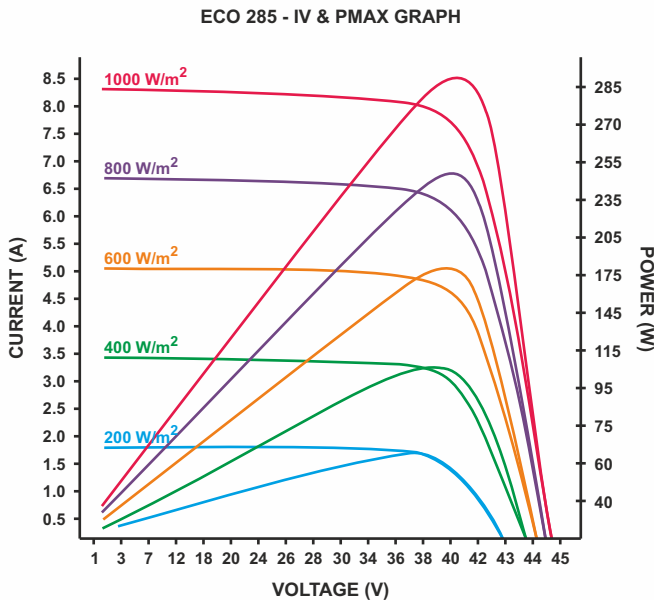
Module Dimensions (mm)	1960 x 989 x 50
Module Weight (Kg)	27
Maximum Load / Snow load (Pascal)	2400 / 5400
Junction Box	TUV approved, IP 65 rated 4 terminal Junction Box with 3 bypass diodes
Output interconnect Cable	1000 mm long 4.0 mm <sup>2</sup> cables for positive and negative connections with MC-4 compatible connectors

## Dimensions & Mounting Holes:



## Mounting Hole Characteristics:

Mounting Holes	16 mm x 8mm (Oblong, 8 nos.)
X - Pitch =	960 mm ±1 mm
Y1 - Pitch =	1120 mm ±1 mm
Y2 - Pitch =	1200 mm ±1 mm
G = Grounding	Φ 7 mm
Water Drainage	Φ 4 mm



## Certificates:

The Modules are certified to IEC 61215 & IEC 61730, Electrical Protection Class II and the CE- guidelines. Moreover PV Power Tech is certified & Registered to ISO 9001 and ISO 14001.



## Note:

1. PV Power Tech reserves the right to change the specification without prior notice.
2. All measurements and warranty/guarantee applicability under standard test conditions (1000W/m<sup>2</sup>, 25°C, AM 1.5)

For enquiries: Telephone: 91-22-4221 4800 / 4221 4805  
email: info@pvpowertech.com | web: www.pvpowertech.com

