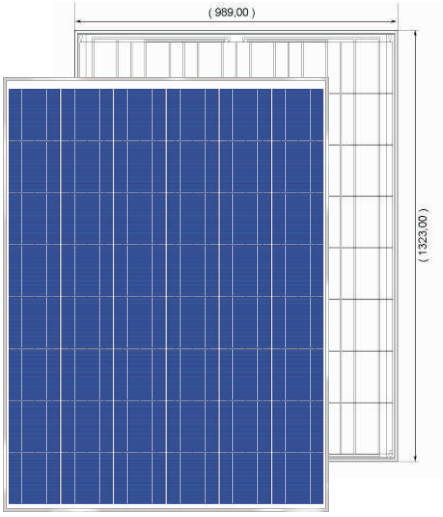
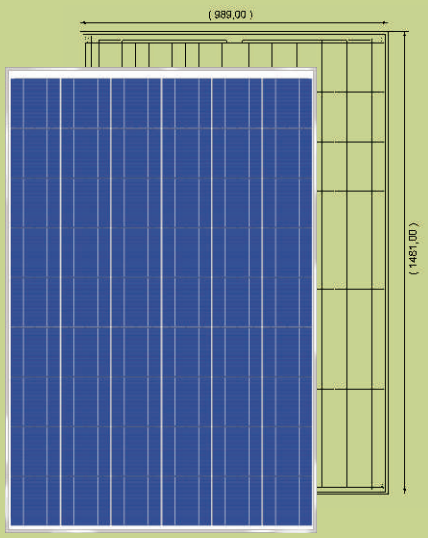
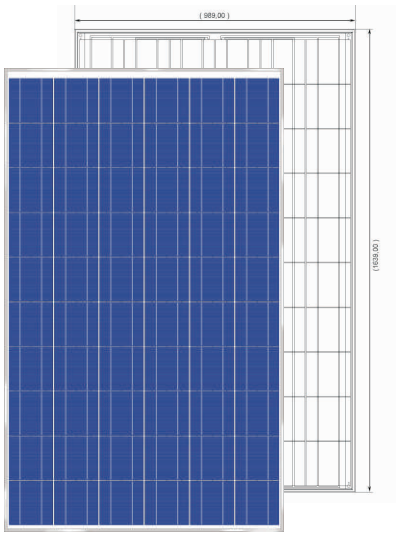
Eco Series



Model Name	Eco 180	Eco 185
Number of cells	48 cells in a series	
Maximum Power (-0/+3%) (Wp)	180W	185W
Open circuit voltage (Voc)	30.60 V	30.80 V
Short circuit current (Isc)	8.08 A	8.20 A
Maximum power voltage (Vmp)	23.80 V	24.04 V
Maximum power current (Imp)	7.57 A	7.70 A
Cell Efficiencies	15.25% and above	15.75% and above
Dimensions	1323mm (L) x 989mm (B) x 35mm (H)	
Weight	16.5 Kgs	
Module Efficiencies	13.8%	14.1%

Model Name	Eco 200	Eco 205
Number of cells	54 cells in a series	
Maximum Power (-0/+3%) (Wp)	200W	205W
Open circuit voltage (Voc)	33.70 V	33.90 V
Short circuit current (Isc)	8.13 A	8.25 A
Maximum power voltage (Vmp)	26.40 V	26.63 V
Maximum power current (Imp)	7.58 A	7.70 A
Cell Efficiencies	15.00% and above	15.50% and above
Dimensions	1481mm (L) x 989mm (B) x 35mm (H)	
Weight	18 Kgs	
Module Efficiencies	13.7%	14.0%

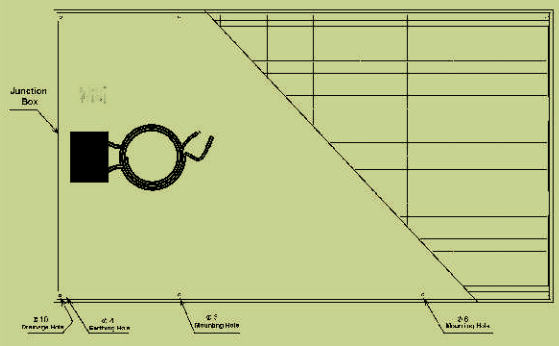




Model Name	Eco 225	Eco 230	Eco 235
Number of cells	60 cells in a series		
Maximum Power (-0/+3%) (Wp)	225 W	230 W	235 W
Open circuit voltage (Voc)	37.60 V	37.84 V	38.10 V
Short circuit current (Isc)	8.29 A	8.44 A	8.57 A
Maximum power voltage (Vmp)	29.20 V	29.40 V	29.58 V
Maximum power current (Imp)	7.71 A	7.83 A	7.95 A
Cell Efficiencies	15.25% and above	15.50% and above	16.00% and above
Dimensions	1639mm (L) x 989mm (B) x 35mm (H)		
Weight	20 Kgs		
Module Efficiencies	13.9%	14.2%	14.5%

Operating Characteristics

Normal Operating cell temp. (NOCT)	45.5 C
Temperature Coefficient (Pmax)	-0.42%/°C
Temperature Coefficient (Voc)	-0.29%/°C
Temperature Coefficient (Isc)	0.040%/°C
Maximum system voltage	DC 1000 V



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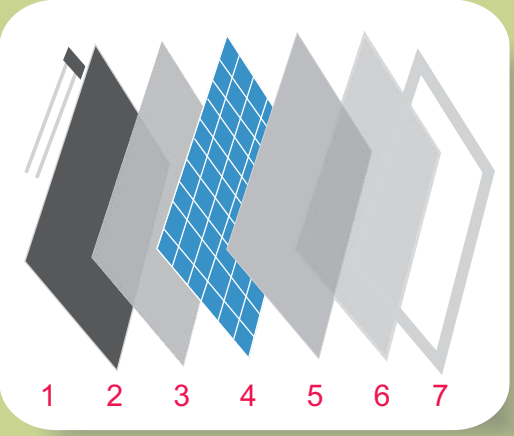
Note: 1. PV Power Tech reserves the right to change the specification without prior notice.
2. All measurements and warranty/ guarantee applicability under standard test conditions (1000W/m2, 25°C, AM 1.5)

Eco Series

Module Construction



1. PV Junction Box : IP65 compliant junction box with 6 high quality diodes. MC4 compatible connectors ensure a safe and a secure connection.

2. Backsheet : Improves weather resistance and increases light reflection, high quality extra white backsheet.

3. EVA (Ethylene Vinyl Acetate) : Creates a tight seal and renders the cells its long life.

4. Cells : Premium grade high efficiency polycrystalline two bus bar cells measuring 156mm x 156mm from Taiwan.

5. EVA (Ethylene Vinyl Acetate)

6. Glass : 3.20mm Low Iron Toughened, High Transitivity, Tempered High Impact resistance glass - Textured on the inside to increase reflection and efficiency.

7. Aluminum Frames : Robust, Anodized Non-corroding aluminum snap-fit frames with pre-drilled drainage and grounding holes.

High Efficiency cells :

The Eco series is based on premium two bus bar polycrystalline cells from Taiwan. These cells have very high efficiencies and good fill factor to increase the overall efficiency of the module.

High Efficiency Cost Effective Modules :

The Eco series is designed to effectively use the space available offering higher output per meter^2 at highly competitive costs maximizing the return on investments. The Eco series have a minimum efficiency of 13% and go all the way to 14.50% at the module level.

PV Power Tech's Quality and Product commitment :

At PV Power Tech, we take pride in using the best quality proven raw materials from industry leaders. The modules are constructed using state of the art automated equipments in our TUV certified manufacturing facility. The Eco series is being tested by TUV Intercert according to the standards of IEC 61215 for design and performance and IEC 61730 (Safety Class II). The Eco series will be backed by a standard 5 years 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.

Application :

The Eco series is designed for a wide variety of application from stand-alone autonomous applications to grid-connected installations. The Eco series is available as both framed and laminates and is designed for ease of installation.

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