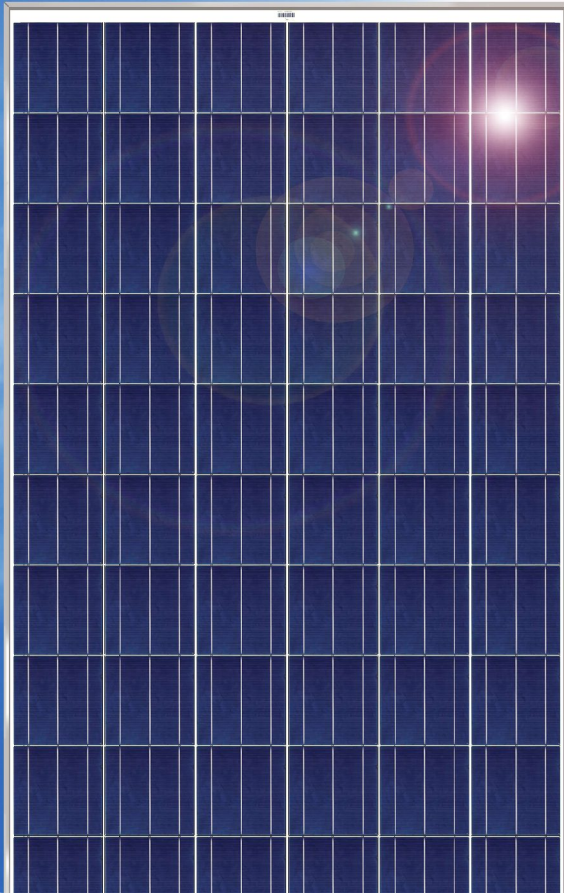


# PVQ Series



- ▶ Premium modules powered by 3 bus bar cells from Q Cells, Germany
- ▶ High Performance modules with efficiency upto 14.5%
- ▶ Ranked #6 in annual yield test by Photon, Germany
- ▶ High Resistance to mechanical loads
- ▶ IEC 61215 & 61730 certified
- ▶ 25 years power warranty

**PREMIUM QUALITY:** At PV Power Tech, our modules are manufactured using the most premium materials available from proven industry players. The 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. The PVQ3 series of panels have been tested by Photon consulting group and rank #6 for their performance (2010).

**CERTIFICATIONS:** PVQ3 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 PVQ3 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.

**NEXT GENERATION TECHNOLOGY:** PVQ3 series panels are powered by next generation 3 bus bar polycrystalline cells from Q Cells, Germany. The 3 bus bar cells provide higher efficiency with lower series resistance and also help with lower operating temperatures ensuring higher outputs from the module. The cells are engineered for high performance under a wide spectrum of lights ensuring good outputs under low light conditions. The next generation cells clubbed with premium materials and superior manufacturing techniques ensure a module that outperforms most in the industry.

**RELIABILITY:** The PVQ3 series panels are 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<sup>1</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)

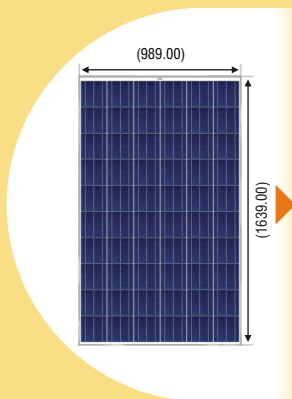
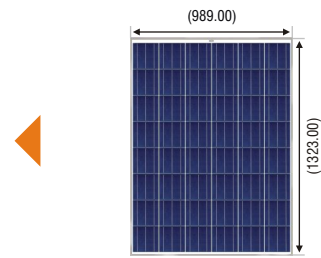


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Model Name	PVQ 180	PVQ 185
Number of Cells	48 Cells in a series	
Maximum Power (Wp)	180 W	185 W
Open circuit voltage (Voc)	30.10 V	30.40 V
Short Circuit current (Isc)	8.00 A	8.20 A
Maximum power voltage (Vmp)	23.84 V	24.00 V
Maximum Power Current (Imp)	7.56 A	7.72 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	PVQ 225	PVQ 230	PVQ 235
Number of Cells	60 Cells in a series		
Maximum Power (Wp)	225 W	230 W	235 W
Open circuit voltage (Voc)	37.29 V	37.46 V	37.63 V
Short Circuit current (Isc)	8.20 A	8.26 A	8.32 A
Maximum power voltage (Vmp)	29.70 V	30.01 V	30.33 V
Maximum Power Current (Imp)	7.58 A	7.68 A	7.75 A
Cell Efficiencies	15.40% and above	15.50% and above	16.20% and above
Dimensions	1639mm (L) x 989mm (B) x 35mm (H)		
Weight	20 kgs		
Module Efficiencies	13.9%	14.2%	14.5%

## Operating Characteristics

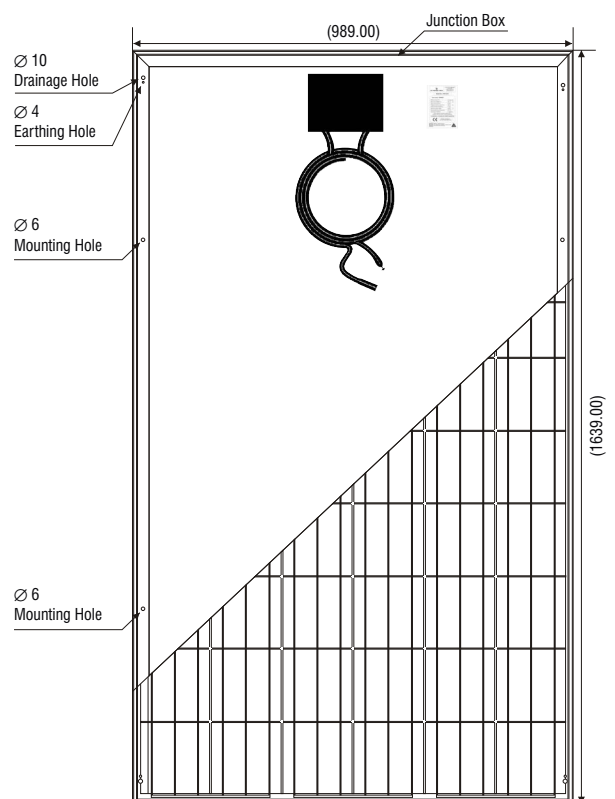
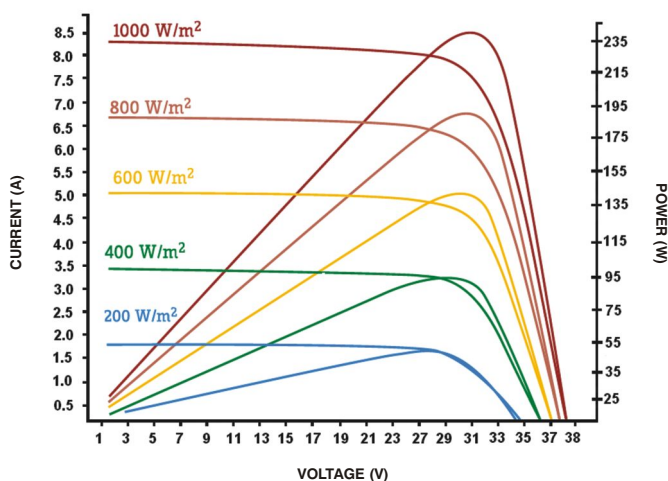
Normal Operating Cell temp. (NOCT)	45.5°C
Temperature Coefficient (Pmax)	-0.42%/°C
Temperature Coefficient (Voc)	-0.29%/°C
Temperature Coefficient (Isc)	0.04%/°C
Maximum System Voltage	DC 1000 V

Power Tolerance (As measured by flasher):  $\pm 4$  W

## Raw Materials

Solar Cells	156mm x 156mm High Efficiency Polycrystalline 3 bus bar cells
Junction Box	IP-65 rated with 6 bypass diodes
Frames	15 microns silver anodized aluminum frames
Front Glass	3.2mm low iron tempered glass with high transmissivity
Cables and Connectors	1200mm long 4mm <sup>2</sup> cables with MC-4 compatible connectors

PVQ 230 - IV & PMAx GRAPH



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