

Voyager became a science fact, as it set off into space more than 30 years ago and is still ongoing. At CNPV we deploy the same engineering and manufacturing controls within your modules, ensuring longest life, industry leading power conversion and complete insurance.

## Selected Salient Features

**3%**  
Positive Tolerance

» Positive tolerance of 3%.

**100%** Electro Luminescence

» EL use provides defect free modules.

**ARC Glass**

» ARC glass gives 2% power gain.

**Unique Frame**

» Twist resistant frame design.

**78%**  
Fill Factor

» Highest fill factor, increased power.

**Strength 8000 Pa**

» 8000Pa Industry leading snow load capacity.

**Triple Busbar**

» Triple busbars, increased power.

**International Bankability**

» 100% International Bankability.

**Larger Diameter**

» Large diameter cells, increased power.

**Degradation Resistance**

» Superior Resistance to PID.

**Cell & Module Matching**

» "Matching" gives 2% power gain.

**25 years True Linear Warranty**

» World's first true linear warranty.



Electrical Data	CNPV-240P	CNPV-245P	CNPV-250P
Peak Power Watts-Pmax (Wp)	240	245	250
Power Output Tolerance-Pmax (%)	0/+3	0/+3	0/+3
Maximum Power Voltage-Vmp(V)	30.8	31.0	31.2
Maximum Power Current-Imp (A)	7.80	7.90	8.00
Open Circuit Voltage-Voc (V)	37.4	37.5	37.6
Short Circuit Current-Isc(A)	8.40	8.50	8.55
Encapsulated Solar Cell Efficiency-ηc	16.4	16.8	17.1
Module Efficiency-ηm (%)	14.7	15.0	15.3

Values at Standard Test Conditions STC (Air Mass AM 1.5, Irradiance 1000W/m<sup>2</sup>, Cell Temperature 25°C)

Mechanical Data	
Solar Cells	Poly Crystalline 156×156mm
Cells Configuration	60 cells (6×10)
Module Dimension	1650×992×40mm
Weight	20Kg
Glass	High transmission tempered glass with ARC
Frame	Anodized aluminium alloy type 6063T5; color: Silver
J-box	IP65, 1000VDC, TUV&UL certified with 3 schottky bypass diodes
Cables/Connector	4.0mm <sup>2</sup> (12AWG), TUV certified/IP67, Type IV

Temperature Ratings	
Nominal Operating Cell Temperature (NOCT)	45°C (±2°C)
Temperature Coefficient of Pmax	-0.40%/°C
Temperature Coefficient of Voc	-0.30%/°C
Temperature Coefficient of Isc	0.05%/°C

Warranty	
10 years workmanship warranty	
25 years world's first true linear performance warranty	

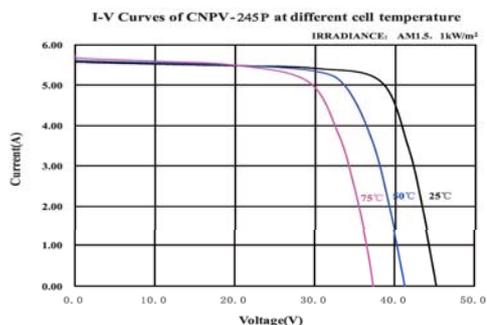
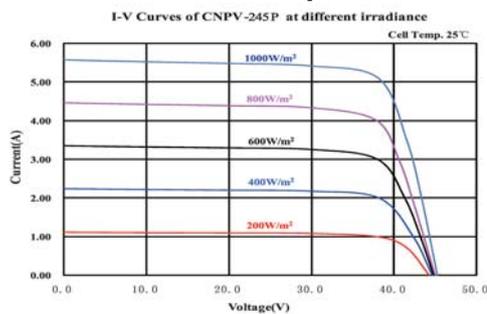
(Please refer to CNPV product warranty for details)

Maximum Ratings	
Operational Temperature	-40~+85°C
Maximum System Voltage	1000VDC
Maximum Series Fuse Rating	20A

Packaging Configuration	
Modules per box	24 pcs
Modules per 40' high cubic container	624 pcs

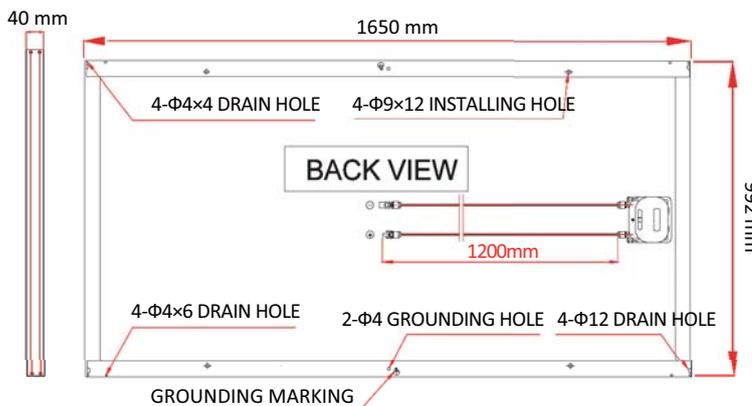


### I-V Characteristics at Different Irradiance & Temperature



Module Efficiency Up to **15.3%**      Wattage Up to **250W**      Years Warranty **25**

### Dimensional Characteristics



DISCLAIMER: specifications included in this datasheet are subject to change without previous notice from the company. In case of any conflicts/problems that may arise due to misinterpretation, prevailing conditions are the ones described in the original version (in English).

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