

**HIGH PERFORMANCE 72 CELL POLYCRYSTALLINE  
SOLAR PHOTOVOLTAIC MODULE**  
CNPV-310P, CNPV-305P, CNPV-300P, CNPV-295P

**Optimal Premium  
Series by**

**CNPV<sup>POWER</sup>**

**MOREPOWER**

**3% Positive Tolerance**

CNPV's positive tolerance on label rating power provides higher kWh for money invested.



Low iron, anti reflective coated glass gives 2% Energy gain.



Matching gives 2% additional power gain measured at STC conditions.



Independently verified by Photon and Öko-Test as amongst the best kWh/kWp output worldwide.

**100% Electro Luminescence**

EL screening provides defect free modules.



Long life in marine and high pollution environments.



Pre-approved with financial institutions and rapid capability ensures customers' cost of project is reduced.



Audited controls for high value consistency.

**FOR LONGER**

**True Linear Warranty 25 years**

Highest power warranty coverage available on a linear basis.

**Workmanship Warranty 10 years**

10 years global workmanship warranty.

**Strength 5400Pa**

Industry leading snow loading capacity.

**Degradation Resistance**

Superior resistance to PID.

**Low Carbon Footprint**

One of the lowest carbon footprints over 100 years life cycle.

**Green Credentials**

Fully committed to recycling during production and end of product life, a dedicated member of PV cycle.

**Eco Friendly Packaging**

Friendly materials choice with high density packing.

**ISO14001 accredited ISO**

Continuous improvement in reducing environmental impact.



**MUCH SAFER**

**AND GREENER**

**About CNPV**

CNPV Solar Power, is a leading integrated manufacturer of solar photovoltaic products, that designs, manufactures and supplies highly efficient and cost effective crystalline solar photovoltaic modules. Reliability & longevity are built into our world-class crystalline solar photovoltaic modules, which undergo rigorous internal tests and external certifications (IEC61215, IEC61730, UL and CE) to ensure peak performance and safety. For further information, please visit CNPV's website at <http://www.cnpv-power.com>, please contact us at [marketing@cnpv-power.com](mailto:marketing@cnpv-power.com).



Electrical Data	CNPV-290P	CNPV-295P	CNPV-300P	CNPV-305P	CNPV-310P
Peak Power Watts-Pmax (Wp)	290	295	300	305	310
Power Output Tolerance-Pmax (%)	0/+3	0/+3	0/+3	0/+3	0/+3
Maximum Power Voltage-Vmp (V)	35.40	35.80	36.20	36.60	37.00
Maximum Power Current-Imp (A)	8.20	8.25	8.30	8.35	8.40
Open Circuit Voltage-Voc (V)	45.00	45.20	45.40	45.60	45.80
Short Circuit Current-Isc (A)	8.75	8.80	8.85	8.90	8.95
Encapsulated Solar Cell Efficiency- $\eta_c$ (%)	16.6	16.8	17.1	17.4	17.7
Module Efficiency- $\eta_m$ (%)	14.9	15.1	15.4	15.6	15.9

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 156x156mm
Cells Configuration	72 cells (6x12)
Module Dimension	1965x992x35mm(77.36"x39.06"x1.38")
Weight	22Kg(48.5lb)
Glass	High transmission tempered glass with ARC
Frame	Anodized aluminium alloy type 6063T5 ; Color: Silver
J-box	Potted , IP67, 1000VDC, TÜV&UL certified with 3 schottky bypass diodes
Cables/Connector	4.0mm <sup>2</sup> (12AWG), TÜV&UL certified/IP67, Type IV

Temperature Ratings	
Nominal Operating Cell Temperature (NOCT)	45±2°C(113±35.6°F)
Temperature Coefficient of Pmax	- 0.40%/°C(-0.22%/°F)
Temperature Coefficient of Voc	- 0.32%/°C(-0.18%/°F)
Temperature Coefficient of Isc	0.05%/°C(0.028%/°F)

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

(Please refer to CNPV product warranty for details)

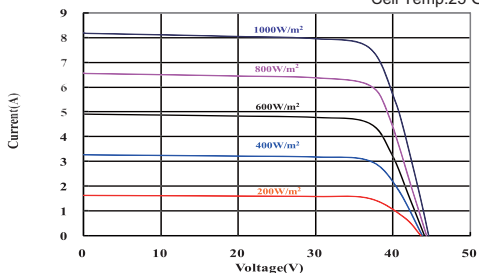
Maximum Ratings	
Operational Temperature	-40~+85°C
Maximum System Voltage	1000VDC
Maximum Series Fuse Rating	15A

Packaging Configuration	
Modules per box	30 pcs
Modules per 40 ft high cubic container	660 pcs
Modules per 20 ft container	250 pcs
Dimensions of Pallet (LxWxH)	2025x1145x1186mm
Gross Weight	710kg

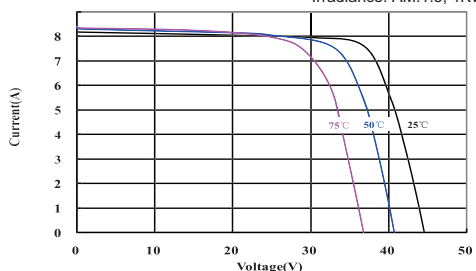


### I-V Characteristics at Different Irradiance & Temperature

I-V Curves of CNPV-295P at different irradiance  
Cell Temp.25°C



I-V Curves of CNPV-295P at different cell temperature  
Irradiance: AM.1.5, 1KW/m<sup>2</sup>



Module Efficiency  
Up to

15.9%

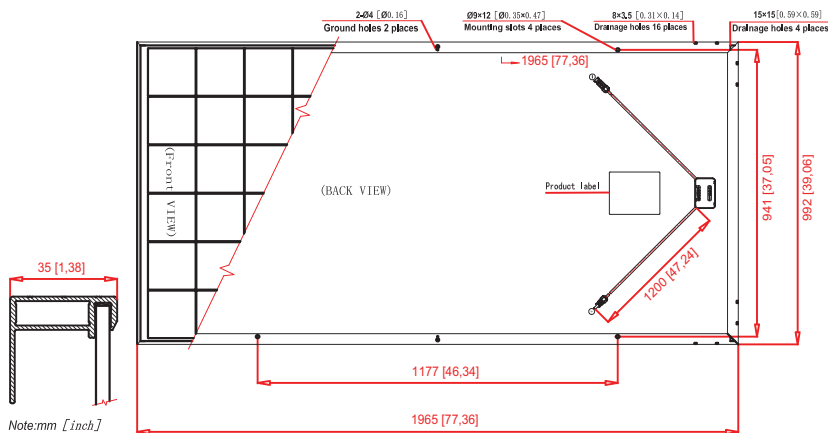
Wattage  
Up to

310W

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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