HIGH PERFORMANCE 54 CELL POLYCRYSTALLINE Optimal Premium **SOLAR PHOTOVOLTAIC MODULE**

CNPV-230P-54. CNPV-225P-54. CNPV-220P-54



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.



3 busbar design cells in modules ensures longevity and greater power output.



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.



EL screening provides defect free modules.



Twist resistant frame design.



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



Audited controls for high value consistency.

MUCHSAFER

FORLONGER

True Linear 25 Warranty

Highest power warranty coverage available on a linear basis.

Workmanship 10 Warranty years

10 years global workmanship warranty.



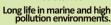
Industry leading snow loading capacity.

Degradation Resistance



Superior resistance to PID.

Accredited ammonia/salt mist resistance



Smart **Junction Box**



Long term water vapour screening and increased heatsink.

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.

ANDGREENER

About CNPV

CNPV Solar Power SA, 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.























Electrical Data	CNPV-220P-54	CNPV-225P-54	CNPV-230P-54	
Peak Power Watts-Pmax (Wp)	220	225	230	
Power Output Tolerance-Pmax (%)	0/+3	0/+3	0/+3	
Maximum Power Voltage-Vmp(V)	26.60	27.05	27.55	
Maximum Power Current-Imp (A)	8.28	8.32	8.36	
Open Circuit Voltage-Voc (V)	33.80	34.00	34.20	
Short Circuit Current-Isc(A)	8.82	8.86	8.90	
Encapsulated Solar Cell Efficiency-ηc	16.8	17.0	17.5	
Module Efficiency-ηm (%)	15.0	15.3	15.6	

Values at Standard Test Conditions STC (Air Mass AM 1.5, Irradiance 1000W/m², Cell Temperature 25°C)

Mechanical Data				
Solar Cells	Poly Crystalline 156×156mm			
Cells Configuration	54 cells (6×9)			
Module Dimension	1482×992×35mm(58.35"×39.06"×1.38")			
Weight	16.5Kg(36.38lb)			
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 ² (12AWG), TUV certified/IP67, Type IV			

Temperature Ratings			
Nominal Operating Cell Temperature (NOCT)	45±2°C(113±3.6°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)

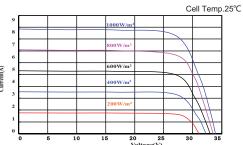
Maximum Ratings	
Operational Temperature	-40~+85°C
Maximum System Voltage	1000VDC
Maximum Series Fuse Rating	20A

Packaging Configuration	
Modules per box	30 pcs
Modules per 40 ft high cubic container	840 pcs
Modules per 20 ft container	350 pcs
Dimensions of Pallet (L×W×H)	1550×1145×1174mm
Gross Weight	540kg

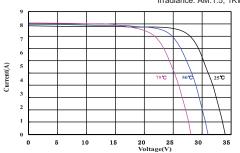


I-V Characteristics at Different Irradiance & Temperature

I-V Curves of CNPV-225P-54 at different irradiance



I-V Curves of CNPV-225P-54 at different cell temperature Irradiance: AM.1.5, 1KW/ m²



Module Efficiency Up to

15.6%

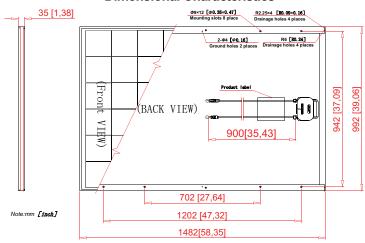
Wattage Up to

230W

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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Our Partners:			