HIGH PERFORMANCE 54 CELL POLYCRYSTALLINE Optimal Premium Series by CNP

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.

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

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

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

Independent Performance Verification Π

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

100% Electro Luminescence EL screening provides defect free modules.

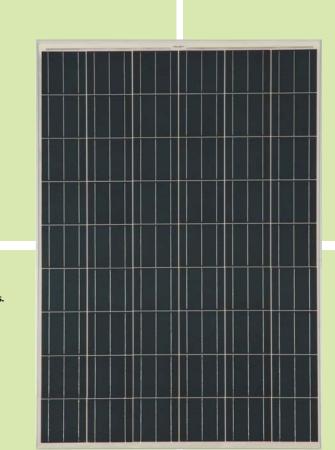
Unique Frame Twist resistant frame design.

Bankability

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

ISO9001 ISO14001 OHSAS18001 Audited controls for high value consistency.









Friendly materials choice with high density packing.

ISO14001 accredited ISO Continuous improvement in reducing environmental impact.



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.

US



ISO9001 ISO14001 OHSAS18001

















FORLONGER

True Linear 25 Warranty years Highest power warranty coverage available on a linear basis.

Workmanship 10 Warranty years 10 years global workmanship warranty.

Strength 8000Pa Industry leading snow loading capacity.

> Degradation Resistance Superior resistance to PID.

Accredited ammonia/salt mist resistance Long life in marine and high pollution environments.

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.

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

Eco Friendly Packaging

CNPV-220P-54~230P-54

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-ŋm (%)	15.0	15.3	15.6

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

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

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)

10 years workmanship warranty

(Please refer to CNPV product warranty for details)

25 years world's first true linear performance warranty

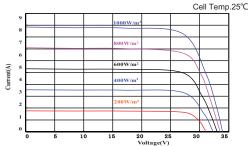
Maximum Ratings	
Operational Temperature	-40~+85°
Maximum System Voltage	1000VDC
Maximum Series Fuse Rating	20A

m Ratings		Packaging Co
al Temperature	- 40~+85 ℃	Modules per bo
System Voltage	1000VDC	Modules per 40
Series Fuse Rating	20A	Modules per 20

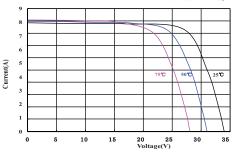
Packaging Configuration		CND POWER
Modules per box	30 pcs	
Modules per 40 ft high cubic container	840 pcs	
Modules per 20 ft container	350 pcs	
Dimensions of Pallet (L×W×H)	1550×1145×1174mm	
Gross Weight	540kg	Tuyinsting Tuyinsting Today (base

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/m^a



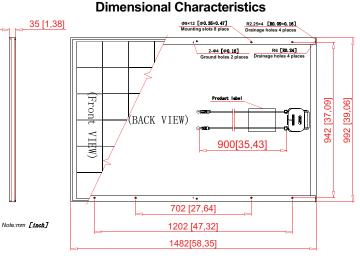
Module Efficiency Up to

15.6%

Wattage Up to

Years Warranty

Edited and Published by Chaudary for CNPV, July, 2013



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:
