## HIGH PERFORMANCE 72 CELL MONOCRYSTALLINE Optimal Premium

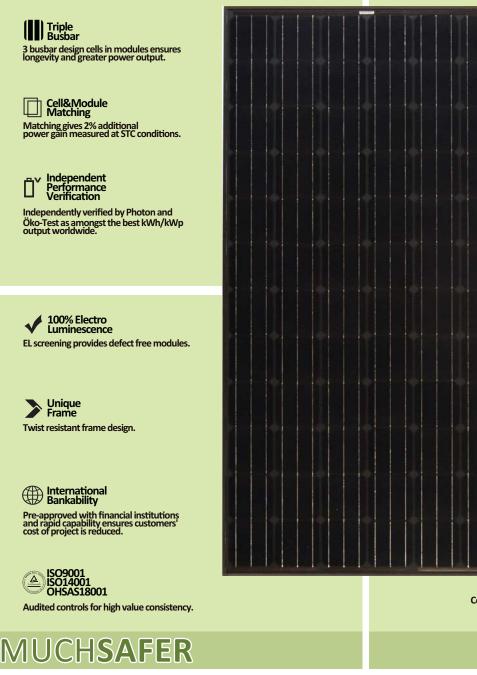
SOLAR PHOTOVOLTAIC MODULE

CNPV-320MB, CNPV-315MB, CNPV-310MB, CNPV-305MB



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.



# Series by CNP

# FORLONGER

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

Workmanship 10 Warranty 10 years global workmanship warranty.

Strength 5400Pa 5400Pa 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 Corbon Footprint Cone 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.



Friendly materials choice with high density packing.

ISO14001 **ISO** 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























CNPV-305MB-320MB

Electrical Data	CNPV-305MB	CNPV-310MB	CNPV-315MB	CNPV-320MB
Peak Power Watts-Pmax (Wp)	305	310	315	320
Power Output Tolerance-Pmax (%)	0/+3	0/+3	0/+3	0/+3
Maximum Power Voltage-Vmp (V)	36.12	36.50	36.85	37.25
Maximum Power Current-Imp (A)	8.45	8.50	8.55	8.60
Open Circuit Voltage-Voc (V)	45.70	45.80	45.90	46.00
Short Circuit Current-Isc(A)	8.95	9.00	9.10	9.15
Encapsulated Solar Cell Efficiency-ηc (%)	17.7	18.0	18.3	18.6
Module Efficiency-ŋm (%)	15.6	15.9	16.2	16.4

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

### Solar Cells Mono Crystalline 156×156mm **Cells Configuration** 72 cells (6×12) Module Dimension 1965×992×35mm(77.36"×39.06"×1.38") Weight 22Kg(48.5lb) Glass High transmission tempered glass with ARC Anodized aluminium alloy type 6063T5; color: Frame Black IP65, 1000VDC, TUV&UL certified with 3 schottky J-box bypass diodes Cables/Connector 4.0mm<sup>2</sup>(12AWG), TUV certified/IP67, Type IV

Nominal Operating Cell Temperature (NOCT)	45±2°C(113±3.6°F)
Temperature Coefficient of Pmax	- 0.45%/°C(-0.25%/°F)
Temperature Coefficient of Voc	- 0.35%/°C(-0.19%/°F)
Temperature Coefficient of Isc	0.05%/°C(0.028%/°F)

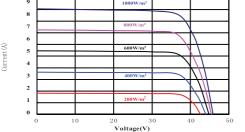
10 years workmanship warranty 25 years world's first true linear performance warranty

(Please refer to CNPV product warranty for details)

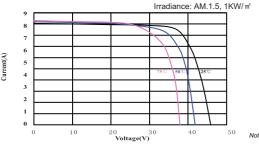
Maximum Ratings		Packaging Configuration		
Operational Temperature	- <b>40~+85°</b> ℃	Modules per box	30 pcs	
Maximum System Voltage	1000VDC	Modules per 40 ft high cubic container	660 pcs	
Maximum Series Fuse Rating	20A	Modules per 20 ft container	250 pcs	
		Dimensions of Pallet (L×W×H)	2050×1145×1174mm	
		Gross Weight	710kg	

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

I-V Curves of CNPV-315MB at different irradiance Cell Temp.25°C



I-V Curves of CNPV-315MB at different cell temperature

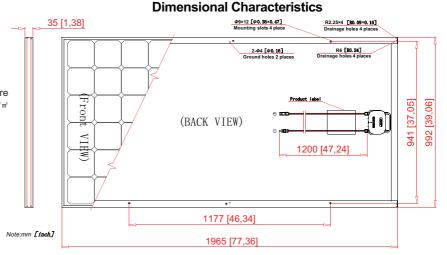


**Module Efficiency** Up to

16.4%

Wattage Up to

Years Warranty



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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