

HIGH PERFORMANCE 72 CELL MONOCRYSTALLINE SOLAR PHOTOVOLTAIC MODULE

CNPV-205MB, CNPV-200MB, CNPV-195MB, CNPV-190MB

Optimal Premium
Series by

CNPV POWER

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.



Critical design to overcome accumulated dirt, power reduction.



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.

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 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.

Green Credentials

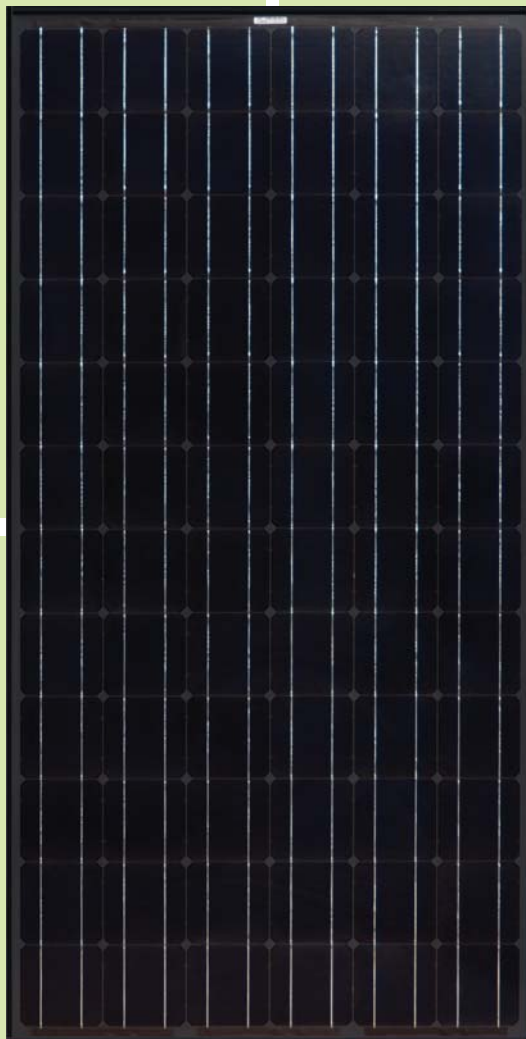
Fully committed to recycling during production and end of product life, a dedicated member of PV cycle.

Eco Friendly Packaging

Friendly materials choice with high density packing.

ISO14001 accredited

Continuous improvement in reducing environmental impact.



MUCH SAFER

AND GREENER

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.



ISO9001
ISO14001
OHSAS18001



Electrical Data	CNPV-190MB	CNPV-195MB	CNPV-200MB	CNPV-205MB
Peak Power Watts-Pmax (Wp)	190	195	200	205
Power Output Tolerance-Pmax (%)	0/+3	0/+3	0/+3	0/+3
Maximum Power Voltage-Vmp (V)	36.60	36.80	37.10	37.30
Maximum Power Current-Imp (A)	5.20	5.30	5.40	5.50
Open Circuit Voltage-Voc (V)	45.35	45.50	45.65	45.80
Short Circuit Current-Isc(A)	5.55	5.65	5.75	5.85
Encapsulated Solar Cell Efficiency- η_c (%)	17.1	17.6	18.0	18.5
Module Efficiency- η_m (%)	14.9	15.3	15.6	16.0

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

Mechanical Data	
Solar Cells	Mono Crystalline 125×125mm
Cells Configuration	72 cells (6×12)
Module Dimension	1581×809×35mm(62.24"×31.85"×1.38")
Weight	15Kg(33lb)
Glass	High transmission tempered glass with ARC
Frame	Anodized aluminium alloy type 6063T5; color: Black
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	- 0.45%/°C(-0.25%/°F)
Temperature Coefficient of Voc	- 0.35%/°C(-0.19%/°F)
Temperature Coefficient of Isc	0.05%/°C(0.028%/°F)

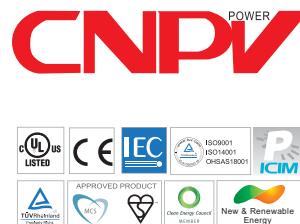
Warranty

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

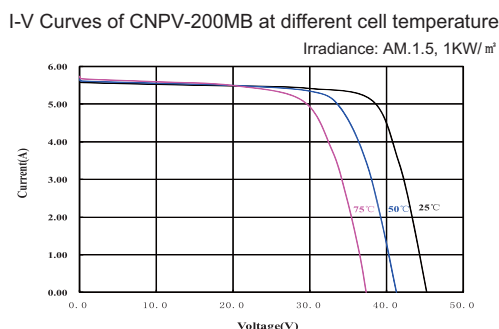
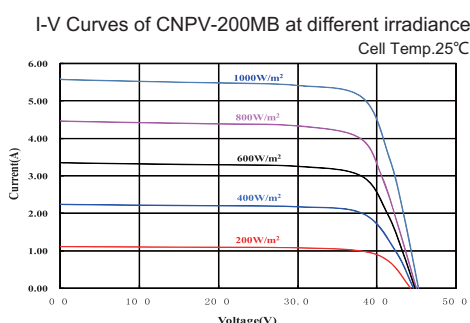
(Please refer to CNPV product warranty for details)

Maximum Ratings	
Operational Temperature	-40~+85°C
Maximum System Voltage	1000VDC
Maximum Series Fuse Rating	10A

Packaging Configuration	
Modules per box	30 pcs
Modules per 40 ft container	840 pcs
Modules per 20 ft container	360 pcs
Dimensions of Pallet (L×W×H)	1665×1145×991mm
Gross Weight	495kg



I-V Characteristics at Different Irradiance & Temperature



Module Efficiency
Up to

16.0%

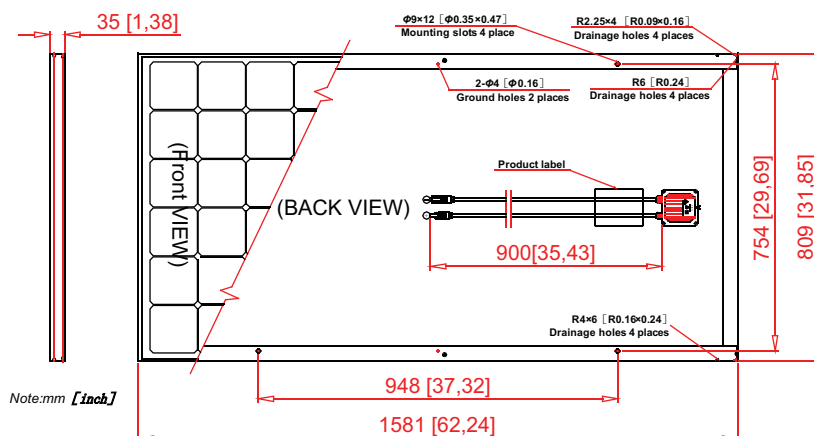
Wattage
Up to

205W

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).

CNPV Solar Power SA
E-mail: marketing@cnpv-power.com
Web: www.cnpv-power.com

Our Partners: