

**HIGH PERFORMANCE 72 CELL MONOCRYSTALLINE SOLAR PHOTOVOLTAIC MODULE**

**CNPV-210M, CNPV-205M, CNPV-200M, CNPV-195M, CNPV-190M**

**Optimal Premium Series by**



**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.

**Maximum edge allowance**

Critical design to overcome accumulated dirt, power reduction.

**Cell & Module Matching**

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

**Independent Performance Verification**

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.

**International 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.

**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 ISO**

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](mailto:marketing@cnpv-power.com).



Electrical Data	CNPV-190M	CNPV-195M	CNPV-200M	CNPV-205M	CNPV-210M
Peak Power Watts-Pmax (Wp)	190	195	200	205	210
Power Output Tolerance-Pmax (%)	0/+3	0/+3	0/+3	0/+3	0/+3
Maximum Power Voltage-Vmp(V)	36.60	36.80	37.10	37.30	37.50
Maximum Power Current-Imp (A)	5.20	5.30	5.40	5.50	5.60
Open Circuit Voltage-Voc (V)	45.35	45.50	45.65	45.80	45.95
Short Circuit Current-Isc(A)	5.55	5.65	5.75	5.85	5.95
Encapsulated Solar Cell Efficiency-ηc	17.1	17.6	18.0	18.5	18.9
Module Efficiency-ηm (%)	14.9	15.3	15.6	16.0	16.4

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	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: Silver
J-box	IP65, 1000VDC, TUV&UL certified with 3 schottky bypass diodes
Cables/Connector	4.0mm <sup>2</sup> (12AWG), TUV certified/IP67, Type IV

Temperature Ratings	
Nominal Operating Cell Temperature (NOCT)	45°C(±2°C)
Temperature Coefficient of Pmax	-0.40%/°C
Temperature Coefficient of Voc	-0.30%/°C
Temperature Coefficient of Isc	0.05%/°C

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

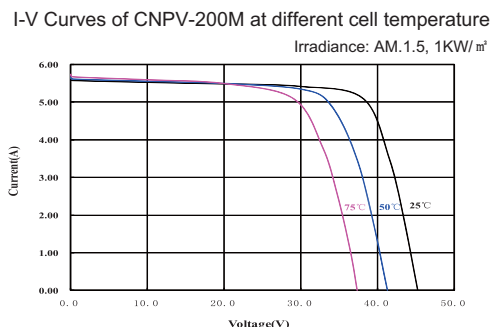
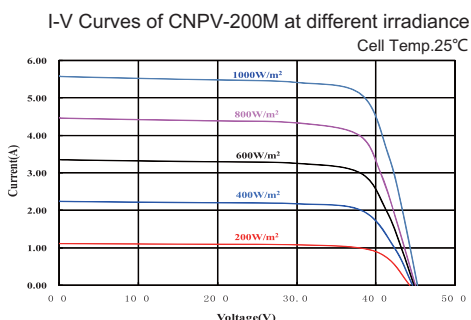
(Please refer to CNPV product warranty for details)

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

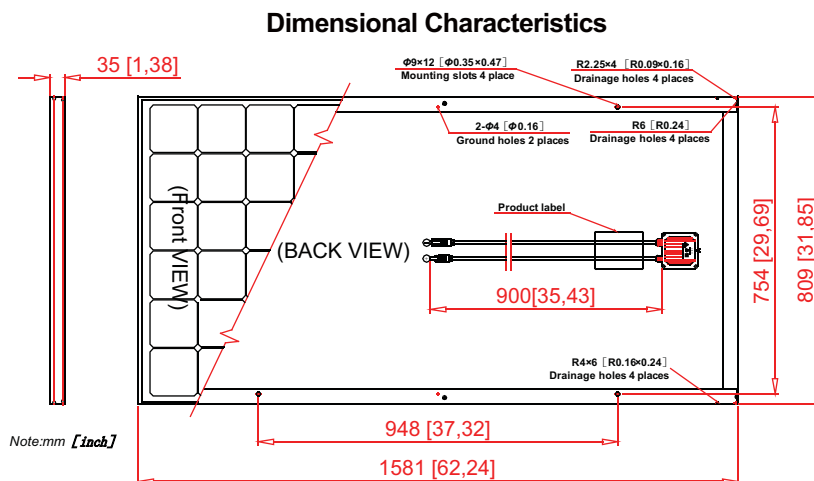
Packaging Configuration	
Modules per box	30 pcs
Modules per 40 ft container	840 pcs
Modules per 20 ft container	360 pcs
Dimensions of Pallet (L×W×H)	1665×1145×991mm
Gross Weight	495kg



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



Module Efficiency Up to **16.4%**  
Wattage Up to **210W**  
Years Warranty **25**



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](mailto:marketing@cnpv-power.com)  
Web: [www.cnpv-power.com](http://www.cnpv-power.com)

