

THE MOST IDEAL AND HIGH PERFORMANCE MONOCRYSTALLINE SPV MODULE FOR OFF-GRID AND ON-GRID APPLICATIONS
CNPV-160M, CNPV-155M, CNPV-150M

Nobility Premium Series by



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.

FOR LONGER

Performance Warranty 20 years

Designed to deliver more for longer.

Workmanship Warranty 5 years

Quality locked in at manufacturing.

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.

Maximum edge allowance

Critical design to overcome accumulated dirt, power reduction.

Low Carbon Footprint

One of the lowest carbon footprints over 100 years life cycle.

Green Credentials

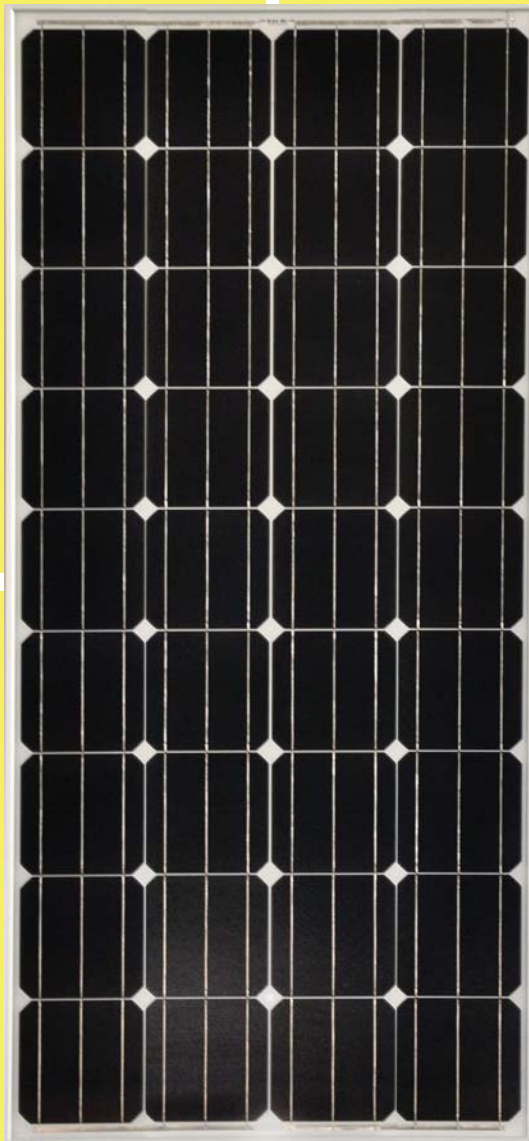
Fully committed to recycling during production and end of product life, a dedicated member of PV cycle.

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.



Electrical Data	CNPV-150M	CNPV-155M	CNPV-160M
Peak Power Watts-Pmax(Wp)	150	155	160
Power Output Tolerance-Pmax(%)	0/+3	0/+3	0/+3
Maximum Power Voltage-Vmp(V)	18.8	19.0	19.2
Maximum Power Current-Imp(A)	8.00	8.15	8.35
Open Circuit Voltage-Voc(V)	22.5	22.6	22.7
Short Circuit Current-Isc(A)	8.60	8.75	8.95
Encapsulated Solar Cell Efficiency-ηc(%)	17.4	18.0	18.6
Module Efficiency-ηm(%)	15.0	15.5	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 156×156mm
Cells Configuration	36 cells (4×9)
Module Dimension	1492×674×35mm(58.74"×26.54"×1.38")
Weight	13Kg(28.66lb)
Glass	High transmission tempered glass with ARC
Frame	Clear anodized aluminium alloy type 6063T5; Color:silver
J-box	IP65, 1000VDC, TÜV certified with 2 schottky bypass diodes

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
5 years workmanship warranty
20 years power performance warranty

(Please refer to CNPV product warranty for details)

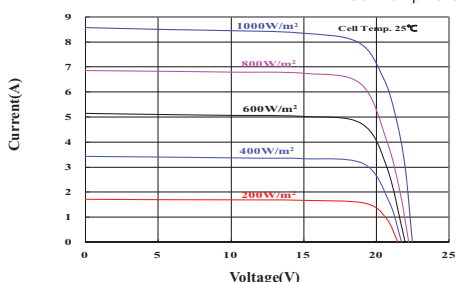
Maximum Ratings	
Operational Temperature	-40~+85°C
Maximum System Voltage	1000VDC
Maximum Series Fuse Rating	20A

Packaging Configuration	
Modules per carton	2 pcs
Modules per pallet	46 pcs
Modules per 40 ft high cubic container	1,058 pcs
Modules per 20 ft container	506 pcs
Dimensions of Pallet (L×W×H)	1530×710×2100mm
Gross Weight	625kg

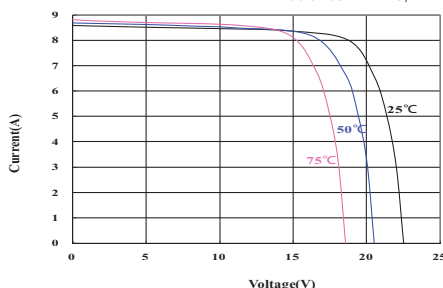


I-V Characteristics at Different Irradiance & Temperature

I-V Curves of CNPV-155M at different irradiance
Cell Temp.25°C

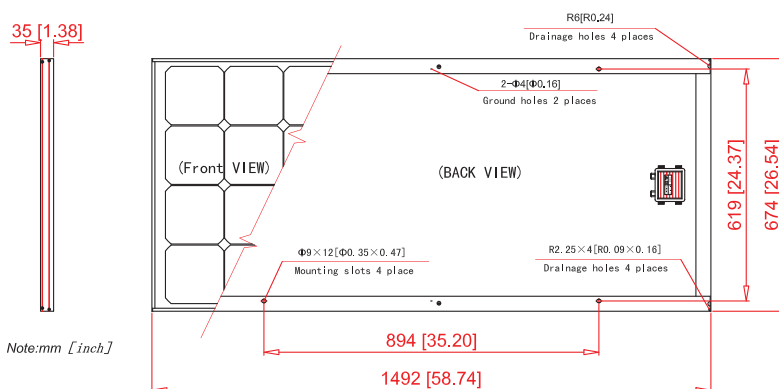


I-V Curves of CNPV-155M at different cell temperature
Irradiance: AM.1.5, 1KW/ m²



Cell Efficiency Up to **18.6%** Wattage Up to **160W** Years Warranty **20**

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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