

▶ Monocrystalline Silicon Solar Module (also for Black)

CNBM Solar Monocrystalline Series V (280W--290W)

CNBM Solar's photovoltaic module is designed for large electrical power requirements. It is the optimal choice for both on-grid and off-grid power systems. CNBM Solar offers high performance of power per square foot of solar array.

- ◇ Solar Cell: High efficiency crystalline solar cell. Even if under the weak light, the solar module can produce maximum power output.
- ◇ Tempered glass: Anti-reflecting coating and high transmission rate glass increase the power output and mechanical strength of solar module.
- ◇ EVA and TPT: Using high quality EVA and TPT to prevent destroying and water.
- ◇ Strong aluminum frames to strengthen the load hold and to stand against high wind.
- ◇ Junction box: Multi function junction box with water proof.
- ◇ Long lifetime: ≥ 25 years; Less power decrease.
- ◇ Good performance of preventing from atrocious weather such as wind and hails.
- ◇ Resisting moisture and etching effectively, not effected by geology.
- ◇ The certificate issued by international authority: UL, TUV, IEC, VDE, CE.



Standard Test Conditions:

The opto-electrical specifications shown below are stabilized values being measured at Standard Test Conditions, Irradiance: 1000W/m², Spectrum: AM1.5 at 25°C, The info below is subject to manufacturing tolerances. Where appropriate minutes of measurement are available and are used for the dimensioning of the installation.

Advantages

- CNBM Solar performance guarantees for 25 years
- 12 years guarantee for workmanship
- Timeliness of delivery
- Quality Products certified (TUV, UL, CE, VDE, ISO)

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Characteristics

Max Power Voltage $V_{mp}(V)$	33.8	34.1	34.4
Max Power Current $I_{mp}(A)$	8.29	8.36	8.44
Open Circuit Voltage $V_{oc}(V)$	40.1	40.4	40.7
Short Circuit Current $I_{sc}(A)$	9.1	9.15	9.2
Max Power $P_m(W)$	280	285	290

Temperature Coefficient of Cells

NOCT	$45^{\circ}C \pm 2^{\circ}C$
Temperature Coefficients of $I_{sc}(\%/^{\circ}C)$	0.039
Temperature Coefficients of $V_{oc}(\%/^{\circ}C)$	-0.31
Temperature Coefficients of $P_{mp}(\%/^{\circ}C)$	-0.42

Mechanical Data

Dimension	1954 x 982 x 45 mm
Weight	27.5kg
No. of Cells and Connections	72 (6 x 12)
Tolerance	0~+5W
Cell	Monocrystalline Cell 156 x 156 mm
Packing	528 Pcs/40ft(H) Container

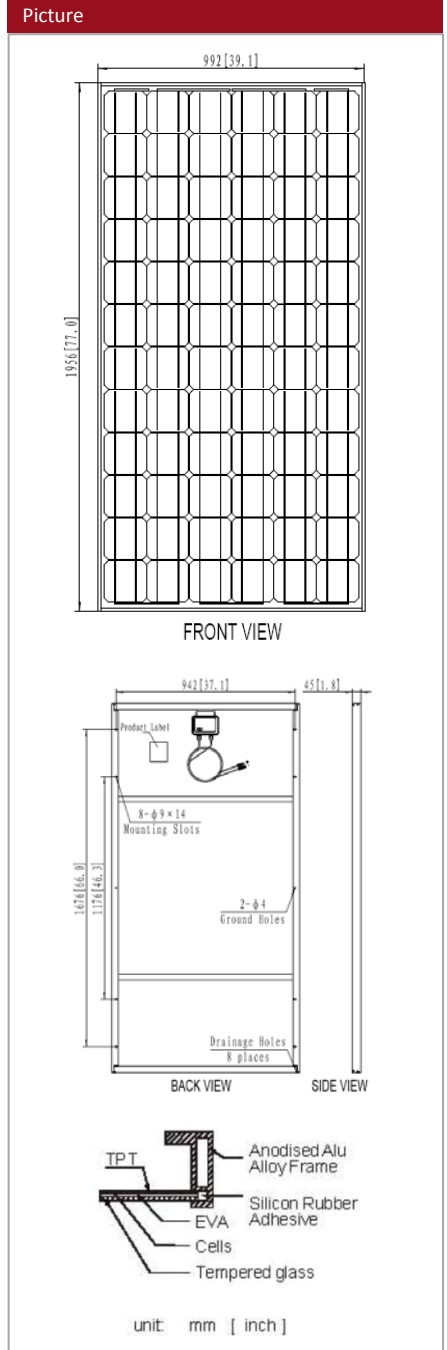
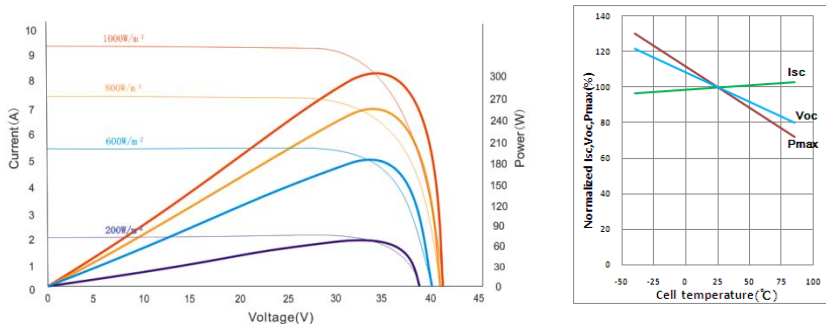
Limits

Operating Temperature	$-40^{\circ}C$ to $+85^{\circ}C$
Storage Temperature	$-40^{\circ}C$ to $+85^{\circ}C$
Max System Voltage	1000VDC(IEC) / 600VDC(UL)

Guarantees

Products Guarantee	12 yrs free from defects in materials and workmanship
Performance Guarantee	No less than 90% within 10yrs and no less than 80% within 25yrs
Certificates	TUV(IEC61215&IEC61730), VDE(IEC61215&IEC61730), UL, CE

IV Curve



* The data does not refer to a single module and it is not part of the offer, It is only for comparison only to different module types.