

## ▶ Monocrystalline Silicon Solar Module (also for Black)

CNBM Solar Monocrystalline Series V (295W--305W)

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:  $\geq 25$  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/m<sup>2</sup>, 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)

**CNBM Sola**

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### Characteristics

Max Power Voltage Vmp(V)	34.7	35	35.5
Max Power Current Imp(A)	8.51	8.58	8.65
Open Circuit Voltage Voc (V)	41.0	41.3	41.7
Short Circuit Current Isc(A)	9.25	9.3	9.35
<b>Max Power Pm(W)</b>	<b>295</b>	<b>300</b>	<b>305</b>

### Temperature Coefficient of Cells

NOCT	45°C ± 2°C
Temperature Coefficients of Isc (%/°C)-	0.039
Temperature Coefficients of Voc (%/°C)	-0.31
Temperature Coefficients of Pmp (%/°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

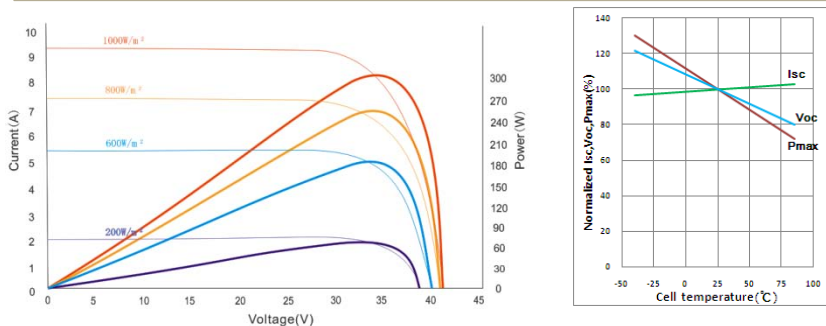
### Limits

Operating Temperature	-40 °C to +85°C
Storage Temperature	-40 °C to +85°C
Max System Voltage	1000VDC(IEC) / 600VDC(UL)

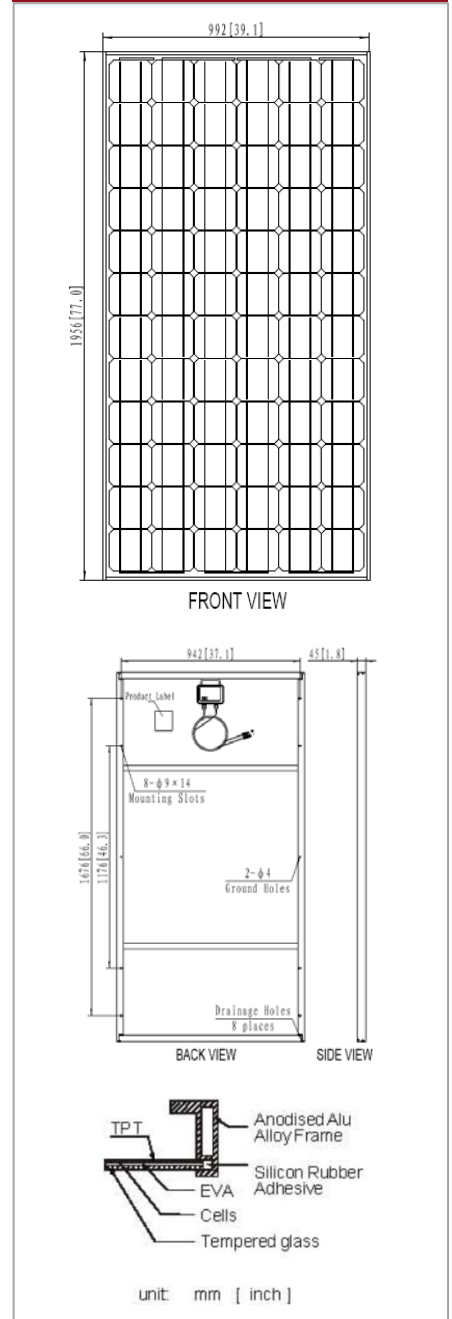
### Guarantees

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



### Picture



\* 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.