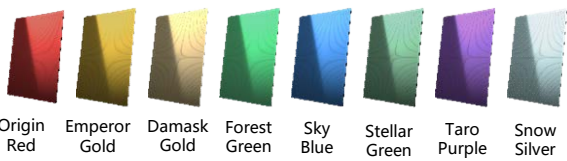


Rainbow Series III COM-CBS1 CdTe Power Glass



Product Features



High power generation

Under the same installed capacity, the power generation is more than other optoelectronic technologies



Low temperature coefficient

Less affected by temperature. With the increase of temperature, the power attenuation is smaller than other PV products



High security

Low hot spot effect, Strong resistance to occlusion, high safety



Adapt to harsh environments

It can be installed and used in extreme conditions such as mountains, deserts, and coastal defenses



Perfect integration with architecture

It can be customized from dimensions, colors, patterns, light transmission, etc., and is suitable for various styles of buildings



Environmental protection and safety

Energy saving and emission reduction, green building materials that can create value

Product Certification



- IEC/EN61215 IEC/EN61730
- GB/T29551
- JGJ102
- Fire Class A

About CNBM (Chengdu)

Chengdu CNBM Optoelectronic Materials Co., Ltd. is the leading company of the thin-film new energy industry, and the subsidiary of the world's top 500 China National Building Materials Group. CNBM is engaged in the R&D and manufacture of Cadmium telluride power generation glass, and the design and installation of photovoltaic systems. CNBM is committed to becoming the world's leading professional provider of cadmium telluride power generation glass solutions.

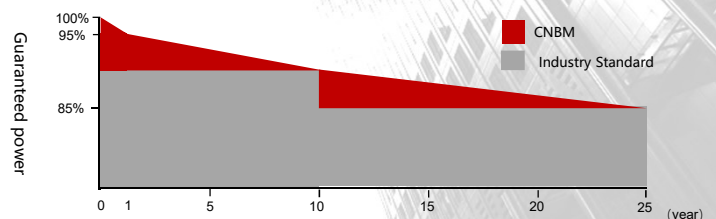
Product Warranty

10-
year

Product
Warranty

25-
year

Linear Power
Output
Guarantee



CNBM (Chengdu)

www.cnbmcoe.com

028-85673548 18180539840 18180532940

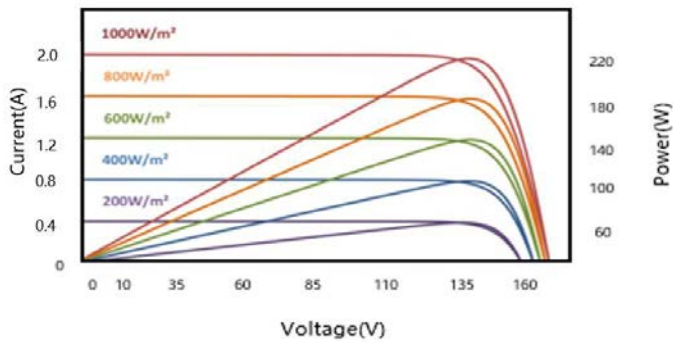


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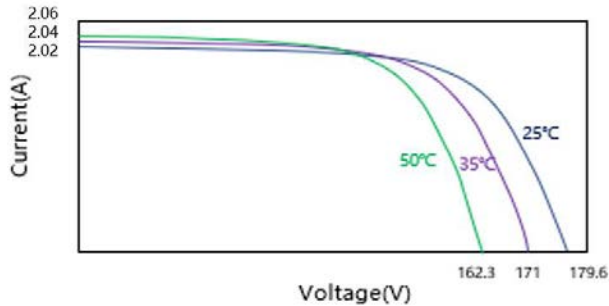
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IV Curves

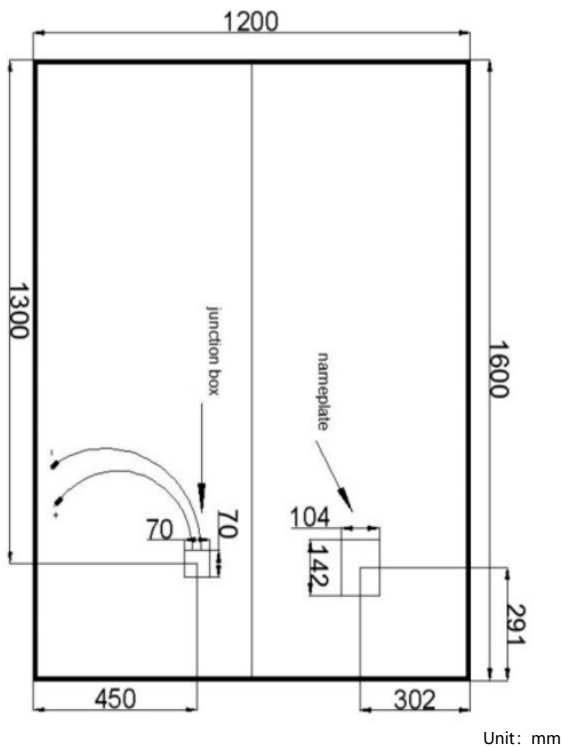
COM-CBS1 at different light intensities



COM-CBS1 at different temperatures



Engineering Drawing



Electrical Parameters (STC)

Number		COM-CBS1-Sky Blue	COM-CBS1-Taro Purple	COM-CBS1-Origin Red
Nominal Power	$P_{MAX}(W)$	220	230	140
Power Tolerance	(%)	± 3	± 3	± 3
Voltage at P_{MAX}	$V_{mpp}(V)$	129.3	129.3	129.1
Current at P_{MAX}	$I_{mpp}(A)$	1.72	1.81	1.10
Open Circuit Voltage	$V_{oc}(V)$	173.8	173.8	173.6
Short Circuit Current	$I_{sc}(A)$	1.99	2.04	1.24

STC (standard test conditions): irradiance 1000W/m², battery temperature 25°C, air quality AM1.5

Temperature Characteristics

NMOT (Nominal Module operating Temperature)	42.3 \pm 2°C
Temperature Coefficient of P_{MAX}	-0.189%/°C
Temperature Coefficient of V_{oc}	-0.396%/°C
Temperature Coefficient of I_{sc}	+0.061%/°C

Operating Conditions

Maximum System Voltage	1000V
Limiting Reverse Current	3.5A
Operating Temperature Range	-40°C ~ +85°C
Load Rating(Wind/Snow)	2400Pa/5400Pa
Hail Test	Passed
Protection Class	IP67

Mechanical Data

Module Dimension	1600*1200*31mm	1600*1200*37mm
Thickness	11mm	17mm
Thickness with Junction Box	31mm	37mm
Area	1.92m ²	1.92m ²
Module Weight	50kg	74kg
Leadwire	2.5mm ² , 900mm	2.5mm ² , 900mm
Front Glass	3.2mm ultra white float glass	6mm ultra white float glass
Back Glass	3.2mm tempered glass	6mm tempered glass
Cell Type	Thin film CdTe semiconductor	Thin film CdTe semiconductor
Encapsulation	PVB/POE	PVB/POE
Number of Cells	215*4	215*4
Available Colors	Origin Red, Stellar Green, Sky Blue, Taro Purple, Snow Silver, etc., support customization	

- Please strictly abide by the user manual for product installation.
- Chengdu CNBM reserves the right of final explanation for technical changes and specific explanations of test conditions.



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