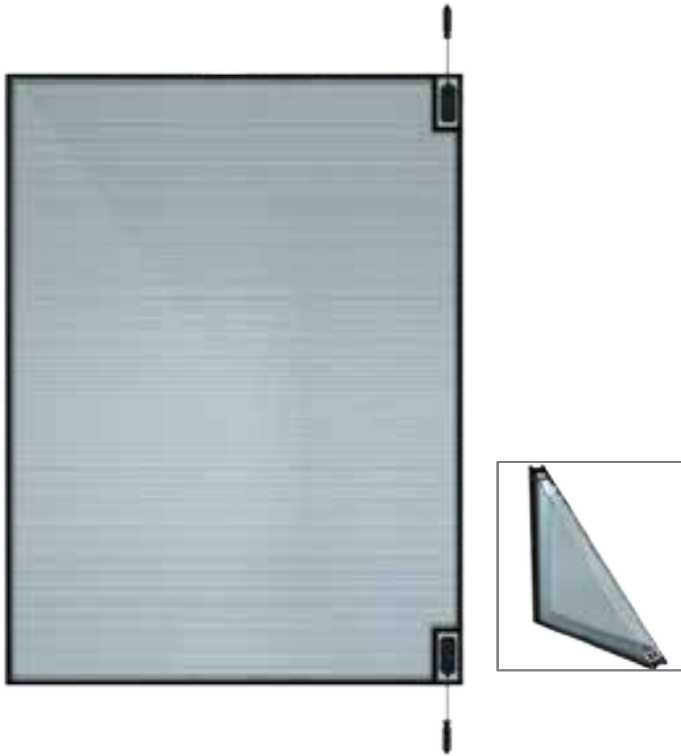


# Hollow Series COM-Z3-Tm CdTe Power Glass



## 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
- Fireproof 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.

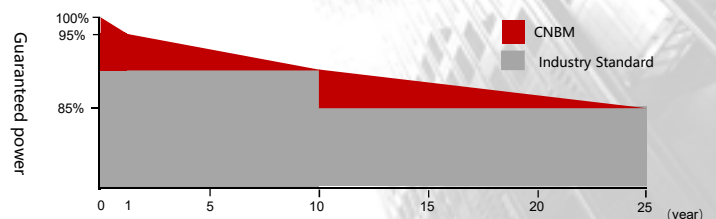
## Product Warranty

10-  
year

Product  
Warranty

25-  
year

Linear Power  
Output  
Guarantee



CNBM (Chengdu)

www.cnbmcoe.com

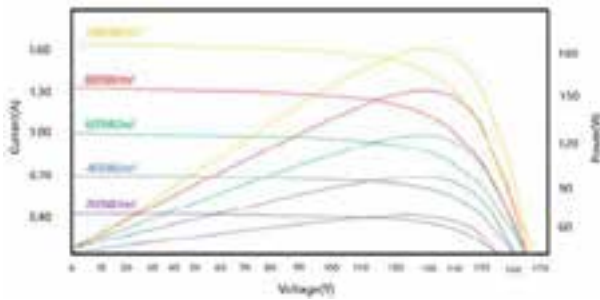
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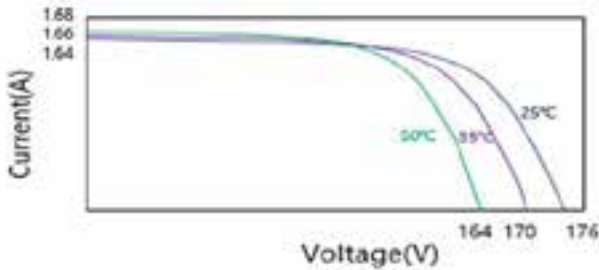
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## IV Curves

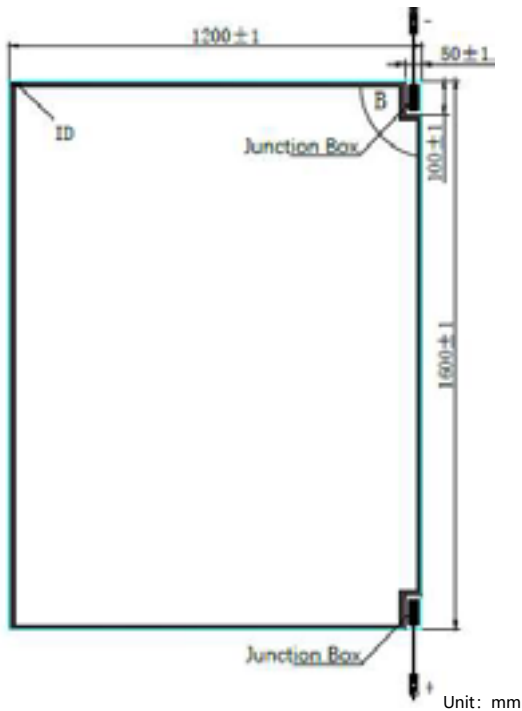
COM-Z3-T30 at different light intensities



COM-Z3-T30 at different temperatures



## Engineering Drawing



## Electrical Parameters (STC)

Number		COM-Z3-T20	COM-Z3-T30	COM-Z3-T40	COM-Z3-T50
Film Removal Rate (%)		20	30	40	50
Nominal Power	$P_{MAX}(W)$	210	180	160	130
Power Tolerance (%)		±3	±3	±3	±3
Voltage at $P_{MAX}$	$V_{mpp}(V)$	129.3	129.3	129.3	129.3
Current at $P_{MAX}$	$I_{mpp}(A)$	1.67	1.46	1.25	1.04
Open Circuit Voltage	$V_{oc}(V)$	173.8	173.8	173.8	173.8
Short Circuit Current	$I_{sc}(A)$	1.90	1.66	1.42	1.15

STC (standard test conditions): irradiance 1000W/m<sup>2</sup>, battery temperature 25°C, air quality AM1.5

## Temperature Characteristics

NMOT (Nominal Module Operating Temperature)	42.3±2°C
Temperature Coefficient $P_{MAX}$	-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*45.3mm
Thickness	28mm
Thickness with Junction Box	45.3mm
Area	1.92m <sup>2</sup>
Module Weight	75kg
Leadwire	2.5mm <sup>2</sup> , 900mm
Front Glass	3.2mm ultra white float glass
Air Glass	6mm Low-E tempered glass
Air Thickness	12mm(12A)
Back Glass	6mm tempered glass
Cell Type	Thin film CdTe semiconductor
Number of Cells	210*4

- 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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