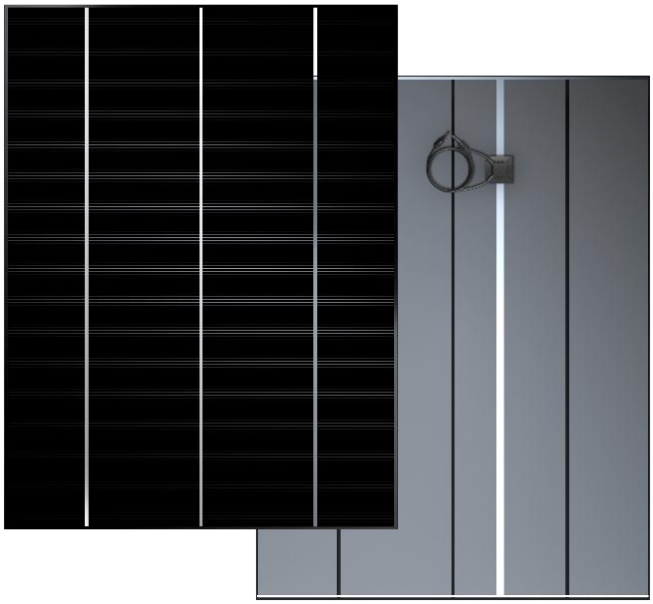
CdTe POWER GLASS

Marble series COM-M1



Product features

High power generation
Compared with other photovoltaic technologies, it has outstanding advantages in power generation performance in hot and humid environments, and performs best

Low temperature coefficient
Little affected by temperature， with the increase of temperature, the power attenuation is small

Small occlusion loss
Being shielded has little impact on power generation, small hot spot effect, low power generation loss, and guarantees product life and safe used

Adapt to harsh environments
It can be installed and used in mountains, deserts, and coastal defenses. It is a marble building material that can generate electricity

Perfect integration with architecture
The color pattern can be customized, the style is diverse, beautiful and generous, the price is affordable, and it can be used in the farm house at a low price

Environmental protection and safety
Energy saving and emission reduction, the only building material that can create value for the owner

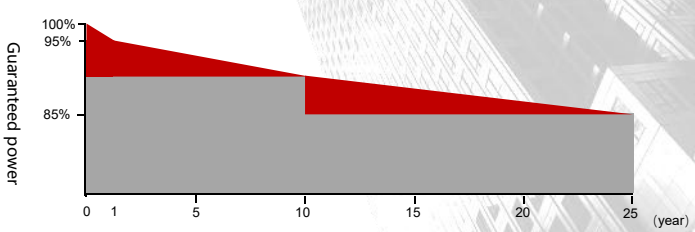
Product certification

- IEC/EN 61215-2/61730
- DIN V VDE 0126-3, DIN V VDE V 0126-5
- UL1703, ULC/ORD-C1703-1
- Safety level：Class II
- Fire rating： Class A

Product Warranty

10-year product warranty

25-year linear power output guarantee



Solar Technology PTE LTD is devoted to bring advanced technology to better serve society with cadmium telluride low-light power generation glass, highly advanced silicone panel, photovoltaic systems Design, installation and operation of the company.

Withcadmium telluride low-light power generation glass as the core, we arecommitted to becoming the leading professional provider of power generation glass solutions in Singapore.

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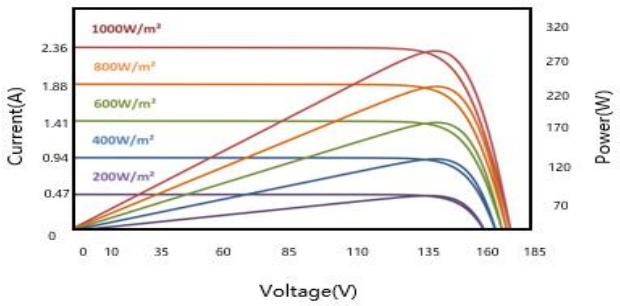
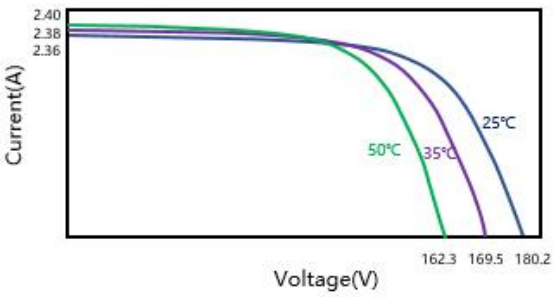
IV CURVES

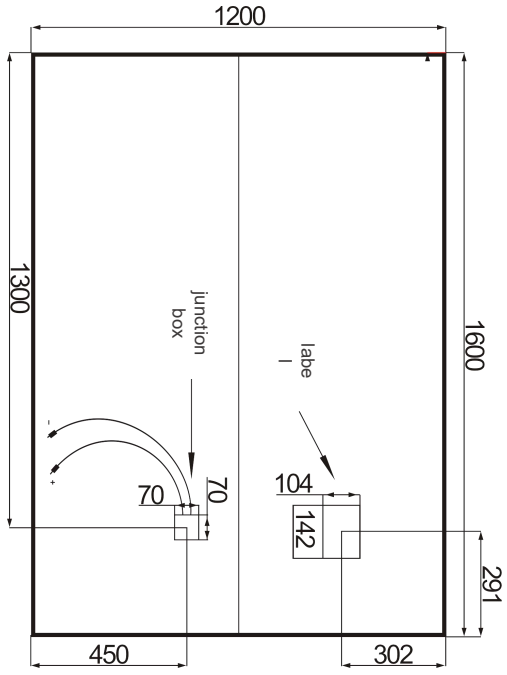
IV curves of COM-M1-280W under different irradiance



IV curves of COM-M1-280W at different temperatures



ENGINEERING DRAWING



Unit：mm

Electrical parameters （STC）

Number		COM-M1-290W	COM-M1-280W	COM-M1-270W	COM-M1-260W	COM-M1-250W
Maximum power	W	290	280	270	260	250
Power tolerance	%	±3	±3	±3	±3	±3
Vmpp	V	137.2	133.1	129.3	127.5	125.0
Impp	A	2.12	2.11	2.09	2.04	2.00
Voc	V	179.0	178.0	173.8	171.4	167
Isc	A	2.39	2.38	2.38	2.31	2.28
Fill factor		0.679	0.662	0.653	0.657	0.657
Conversion efficiency	%	15.1	14.6	14.1	13.5	13

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

TEMPERATURE CHARACTERISTICS

NOCT (nominal operating cell temperature)	42.3±2℃
Temperature Coefficient of Pmax	-0.189%/℃
Temperature Coefficient of Voc	-0.396%/℃
Temperature Coefficient of Isc	+0.061%/℃

OPERATING CONDITION

Maximum System Voltage	**1500V**
Limiting Reverse Current	3.5A
Operating Temperature Range	-40℃∽+85℃
Load Rating	2400Pa
Hail Test	Passed
Waterproof Rating	IP67

Mechanical data

Module Dimension	1600*1200 mm
Thickness	6.9mm
Thickness with Junction Box	26.9mm (junction box included)
Area	1.92m²
Weight	30kg
Cable cross section	2.5mm², 1000mm
Bypass Diode	HY6A10S
Structure	Double glass 3.2mm+3.2mm
Front Glass	3.2mm ultra white float glass
Back Glass	3.2mm semi-tempered glass
Encapsulation	POE/EVA

- Please strictly follow the user manual for product installation. Please consult the user manual carefully or contact after-sales service department of CNBMCOE for installation precautions.
- The technical parameters contained in this technical parameter document may have slight deviation, and CNBMCOE reserves the right of final interpretation in case of technical changes and specific description of test conditions. When signing the contract, the customer shall obtain the latest version of the technical parameter document and take it as an integral part of the binding contract signed by both parties.