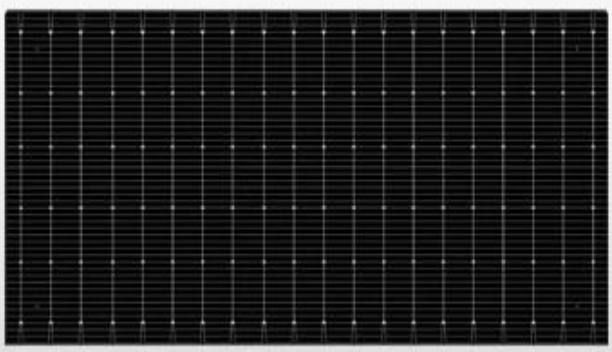
G12-HJT Cell-N Type

Available in "0" BB

Type: N Type Bi-Facial

Dimensional:
- 210.1mm*105.05mm±0.25mm

Thickness:
- 110+20/-10μm, 120+20/-10μm
- Max. Power: 5.56W
- Max. Efficiency: 25.2%



Technology:

The HJT solar cell represents a new generation of superior bifacial solar technology. It is made out of an N-type wafer, which combines the merits of crystalline silicon and thin-film technologies to form a single composite structure. As one of the most effective cell passivation technologies on the market, the HJT ensures that solar cells deliver high efficiency and great power even in hot climates

High Cell Efficiency:

- Wafer gettering combined with microcrystalline cell process to guarantee higher cell efficiency.
- Excellent temperature coefficient ensures more power output in high temperature environments.
- Lower LID and superior anti-PID performance result in extremely low power generation loss

Maximizing Module Efficiency:

- 0-busbar technology combines half-cell design to deliver higher energy output for maximum cost savings.
- Bifacial structure ensures more sunlight captured and converted into power form the back side.
- Extremely low LID and PID enhance reliability and longevity. Lower LCOE by HJT solar system

Registered Office: 7/F, Woon Lee Commercial Building, 7~9 Austin Avenue, Tsim Sha Tsui, Kowloon, Hong Kong. *Phone: +86 756 8936149.*

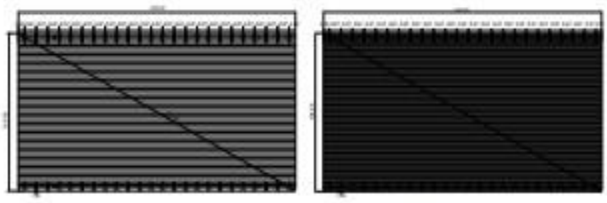
www.mbc-solar.com ; www.mbcsolar.com
general@mbc-solar.com ; general@mbcsolar.com

MBC SOLAR ENERGY LIMITED

A Professional Hong Kong based company, Founders in Solar PV Since 1993.

Mechanical Characteristics

Product	HJT microcrystalline solar cell
Format	N-type, 210.1mm*105.05mm ±0.15mm
Average Thickness (cell)	110+20/-10μm, 120+20/-10μm
Front Surface(-)/Back Surface(+)	OBB



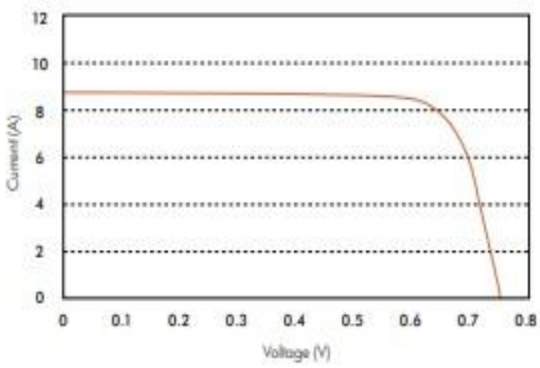
Front side Back side

Electrical Characteristics (STC)

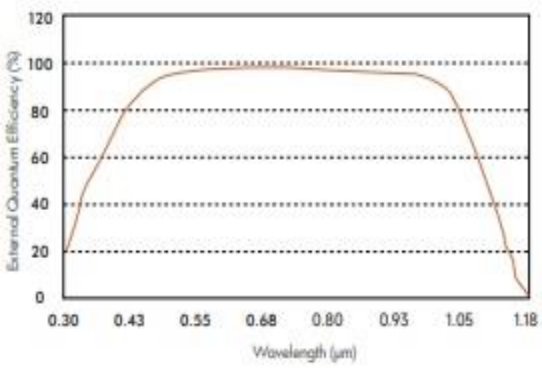
Power Class			HS-G12-245	HS-G12-246	HS-G12-247	HS-G12-248	HS-G12-249	HS-G12-250	HS-G12-251	HS-G12-252
Maximum Power	Pmpp	[W]	5.40	5.42	5.45	5.47	5.49	5.51	5.53	5.56
Short Circuit Current	Isc	[A]	8.71	8.72	8.73	8.74	8.75	8.77	8.78	8.78
Open Circuit Voltage	Voc	[V]	0.751	0.752	0.752	0.752	0.753	0.753	0.753	0.753
Maximum Operating Current	Impp	[A]	8.316	8.330	8.343	8.359	8.355	8.360	8.370	8.373
Maximum Operating Voltage	Vmpp	[V]	0.651	0.653	0.654	0.655	0.658	0.660	0.662	0.664
Efficiency	η	[%]	24.5	24.6	24.7	24.8	24.9	25.0	25.1	25.2

*STC: AM1.5, 1000W/m², 25℃.

I-V Curve



Spectral Response



Packaging Specifications

pcs/box	box/carton	pcs/carton
144	18	2592

Temperature Coefficients

Temperature Coefficient of Pmax	-0.24%/℃
Temperature Coefficient of Voc	-0.22%/℃
Temperature Coefficient of Isc	+0.04%/℃

Remind of Storage

If the sealing foil around the cell boxes is damaged, broken or opened, we suggest that:

- Store the cells in a dry and clean place at room temperature.
- Process the cells within 10 days of opening the seal.

Our PEM Reputed partner's from CHINA, Taiwan, India, Turkey, Vietnam & Thailand.

MBC Solar Stands for Quality & Reliability.

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