

# MS-SC15BB-G12

## 245-252 Series

Heterojunction Solar Cell  
Great Performace With N-type Wafers

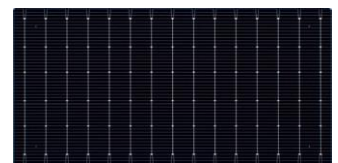
HJT Solar cell is a new generation superior bifacial solar cell model made out of N-type wafer, which combines merits of crystalline silicon and thin film technology to form single composite structure. As one of most effective cell passivation technology in the market. HJT ensures solar cells deliver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

### Higher Cell Efficiency

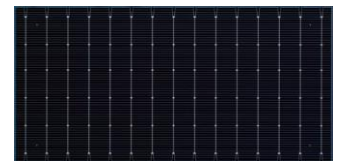
- Phosphorus fettering combines with nano-crystalline process to guarantee higher cell efficiency.
- Ultra-low temperature coefficient ensures more power output in high temperature environment.
- No LID, No PID, lead to zero degradation.

### Maximum Module Power

- 15 Busbar Technology combines half-cell design to deliver high energy output for maximum cost savings
- Bifacial constructure ensures more sunlight captured and converted into power on back side.
- Extreme low LID and PID supports reliability and longevity.
- Low LCOE cost by HJT solar system



Front Side

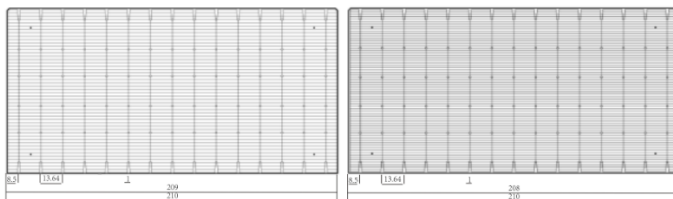


Back Side

The specification and key features described in this datasheet may be deviated slightly and not guaranteed. Macsun Solar reserves the right to make any adjustment to the information described here at any time Without notice. Please always obtain the latest version of the datasheet from our website [www.macsunsolar.com](http://www.macsunsolar.com), or asking our sales for help. This datasheet could be considered as part of the contract if necessary, to make sure the products delivered is the same as order.

## Mechanical Characteristics

Product	HJT Monocrystalline solar cell
Format	15BB, N-type, 210mm*105mm ±0.25mm
Average Thickness (Si)	130μm ±20μm
Front Surface(-)	15 soldering pads (silver) Dark blue anti-reflecting ITO coating (Indium tin oxide)
Back Surface(+)	15 soldering pads (silver) Dark blue anti-reflecting ITO coating (Indium tin oxide)

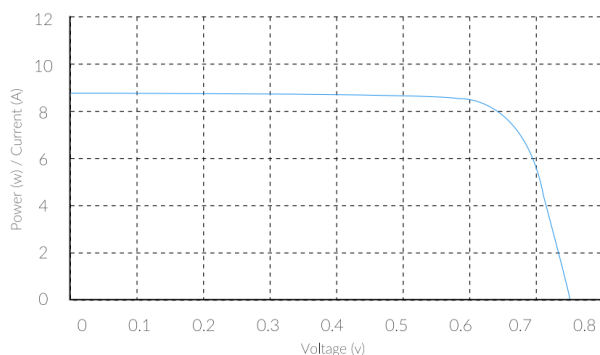


## ELECTRICAL CHARACTERISTICS (STC)

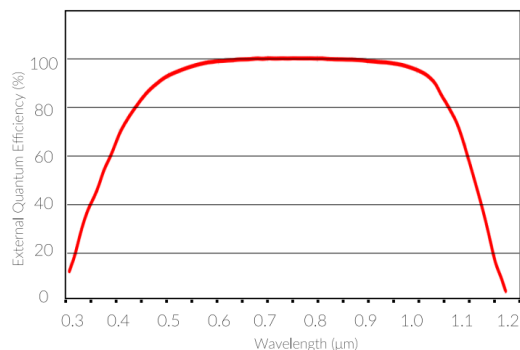
Power Class			MS-G12-245	MS-G12-246	MS-G12-247	MS-G12-248	MS-G12-249	MS-G12-250	MS-G12-251	MS-G12-252
Maximum Power	P <sub>mp</sub>	[W]	5.40	5.42	5.45	5.47	5.49	5.51	5.53	5.56
Short Circuit Current	I <sub>sc</sub>	[A]	8.68	8.67	8.68	8.69	8.70	8.70	8.72	8.72
Open Circuit Voltage	V <sub>oc</sub>	[V]	0.743	0.744	0.744	0.745	0.745	0.746	0.746	0.746
Efficiency	η	[%]	24.5	24.6	24.7	24.8	24.9	25.0	25.1	25.2

\*PERFORMANCE AT STANDARD TEST CONDITIONS, STC: 1000 W/ m<sup>2</sup>, 25 °C, AM 1.5 G

## TYPICAL CURRENT/POWER-VOLTAGE CURVES (25.0%)



## SPECTRAL RESPONSE



## PACKING SPECIFICATIONS

pcs/box	box/carton	pcs/carton
120	18	2160

## TEMPERATURE COEFFICIENTS

Power (P <sub>max</sub> )	-0.26%/K
Current (I <sub>sc</sub> )	+0.055%/K
Voltage (V <sub>oc</sub> )	-0.27%/K

## Remind of Storage

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

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

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