



# HS-12BB-M6 240-247 Series

Heterojunction Solar Cell  
High-Performance with N-type Wafers



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

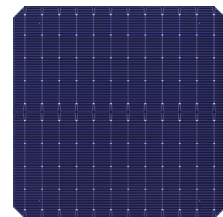
#### Higher Cell Efficiency

- Bifacial constructure ensures more sunlight captured and converted into power on the back side.
- Ultra-low temperature coefficient ensures more power output in high temperature environment.
- No LID, No PID, lead to zero degradation.

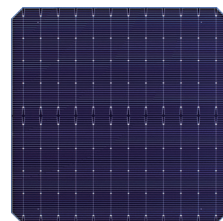
#### Maximum Module Power

- 12-busbar technology combines half-cell design to deliver higher energy output for maximum cost savings.
- excellent weak light performance ensure higher output in lower light environment
- Extreme low LID and PID supports reliability and longevity.
- Lower LCOE cost by HJT solar system

Front

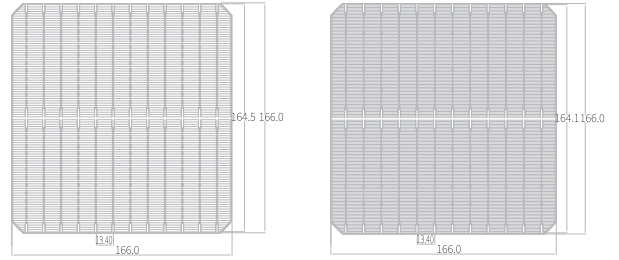


Back



## Mechanical Characteristics

|                        |  |
|------------------------|--|
| Product                | HJT Monocrystalline solar cell   |
| Format                 | 12BB, N-type, 166mm*166mm ±0.25mm  |
| Average Thickness (Si) | 140μm ±14μm  |
| Front Surface(-)       | 2 x 12 soldering pads (silver)<br>Dark blue anti-reflecting ITO coating (Indium tin oxide) |
| Back Surface(+)        | 2 x 12 soldering pads (silver)<br>Dark blue anti-reflecting ITO coating (Indium tin oxide) |

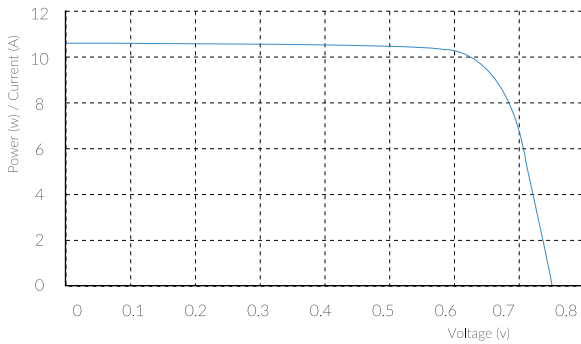


## ELECTRICAL CHARACTERISTICS (STC)

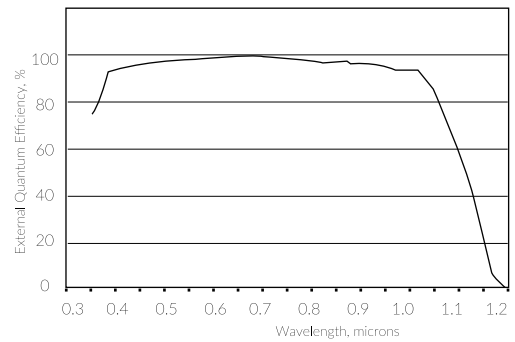
| Power Class           |                  |     | HS-M6-240 | HS-M6-241 | HS-M6-242 | HS-M6-243 | HS-M6-244 | HS-M6-245 | HS-M6-246 | HS-M6-247 |
|-----------------------|------------------|-----|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Maximum Power         | P <sub>mpp</sub> | [W] | 6.58      | 6.61      | 6.63      | 6.66      | 6.69      | 6.72      | 6.74      | 6.77      |
| Short Circuit Current | I <sub>sc</sub>  | [A] | 10.71     | 10.71     | 10.71     | 10.72     | 10.72     | 10.73     | 10.75     | 10.75     |
| Open Circuit Voltage  | V <sub>oc</sub>  | [V] | 0.741     | 0.741     | 0.741     | 0.742     | 0.742     | 0.743     | 0.742     | 0.743     |
| Efficiency            | η                | [%] | 24.0      | 24.1      | 24.2      | 24.3      | 24.4      | 24.5      | 24.6      | 24.7      |

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

## TYPICAL CURRENT/POWER-VOLTAGE CURVES (23.9%)



## SPECTRAL RESPONSE



## PACKING SPECIFICATIONS

|         |            |            |
|---------|------------|------------|
| pcs/box | box/carton | pcs/carton |
| 120pcs  | 14 boxes   | 1680pcs    |

## 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:

- to keep the cells at room temperature and in dry and clean atmosphere.
- to process the cells within 10 days after opening the seal.