



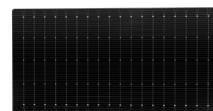
# HS-18BB-G10 245-252 Series

Heterojunction Solar Cell  
Great 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

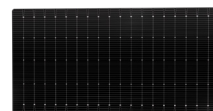
- Phosphorus gettering combines with double-sided microcrystal process to guarantee higher cell efficiency.
- Ultra-low temperature coefficient ensures higher and more stable power output in high temperature environment.
- No LID, No PID, lead to zero power loss.



Front side

## Maximum Module Power

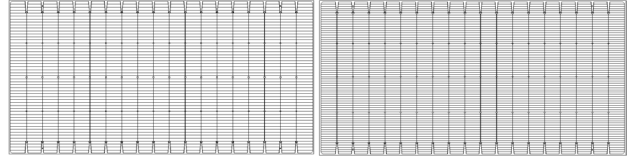
- Half silicon ingot cutting wafer and SMBB technology to deliver higher energy output and lower power loss.
- The natural bifacial symmetrical structure of HJT cell can effectively improve the power generation capacity on cell's backside.
- No LID and No PID effectively extends the PV module life.
- PV systems with lower LCOE using HJT modules



Back side

## Mechanical Characteristics

Product	HJT Monocrystalline solar cell
Format	18BB, N-type, 182mm*91.75mm±0.25mm
Average Thickness (Si)	130μm ±13μm
Front Surface(-)	18 soldering pads (silver) Dark blue anti-reflecting ITO coating (Indium tin oxide)
Back Surface(+)	18 soldering pads (silver) Dark blue anti-reflecting ITO coating (Indium tin oxide)

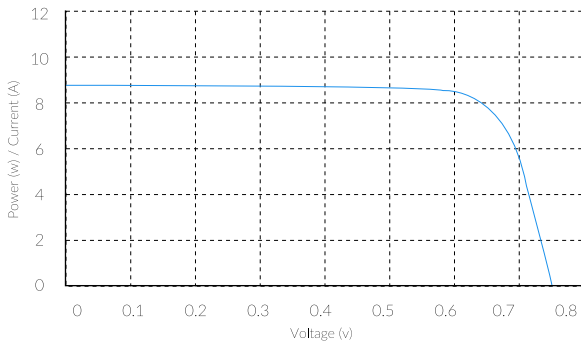


## ELECTRICAL CHARACTERISTICS (STC)

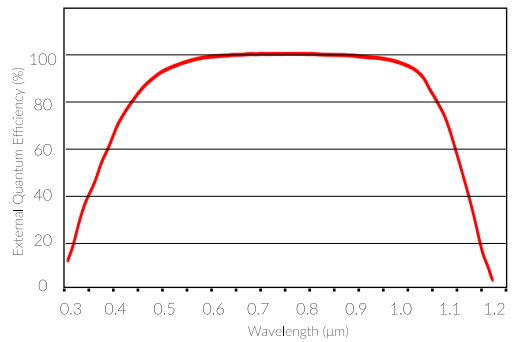
Power Class			HS-G10-245	HS-G10-246	HS-G10-247	HS-G10-248	HS-G10-249	HS-G10-250	HS-G10-251	HS-G10-252
Maximum Power	P <sub>mpp</sub>	[W]	4.10	4.12	4.14	4.15	4.17	4.18	4.19	4.21
Short Circuit Current	I <sub>sc</sub>	[A]	6.53	6.54	6.55	6.56	6.57	6.58	6.59	6.60
Open Circuit Voltage	V <sub>oc</sub>	[V]	0.747	0.747	0.747	0.747	0.747	0.748	0.748	0.748
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
132	18	2376

## 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.