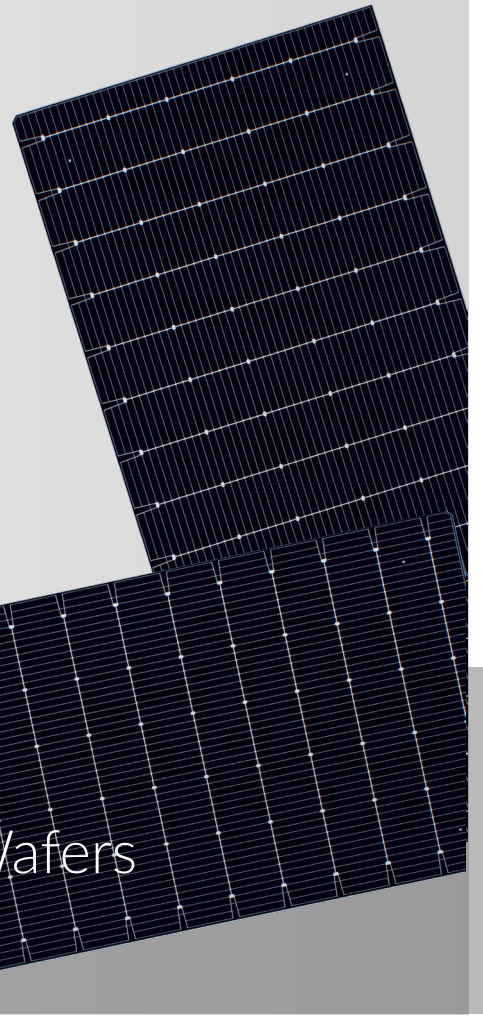




# HS-15BB-G12 245-252 Series

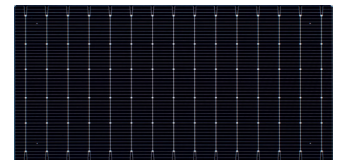
Heterojunction Solar Cell  
Great Performance With N-type Wafers



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 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.



Front side

#### Maximum Module Power

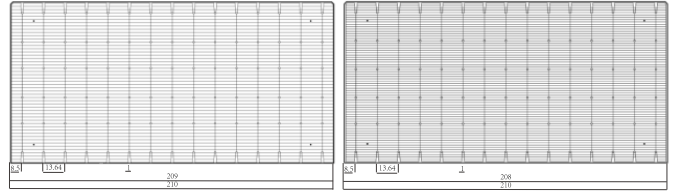
- 15-busbar technology combines half-cell design to deliver higher energy output for maximum cost savings.
- Bifacial construction ensures more sunlight captured and converted into power on the back side.
- Extreme low LID and PID supports reliability and longevity.
- Lower LCOE cost by HJT solar system



Back side

## 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)

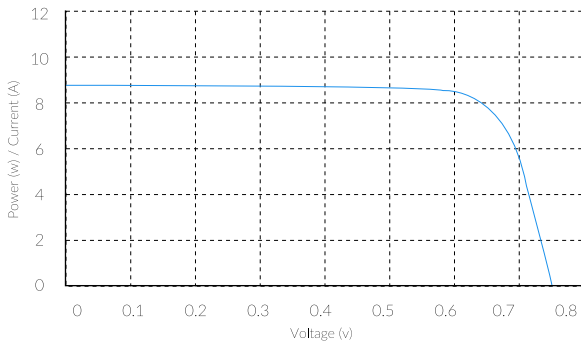


## ELECTRICAL CHARACTERISTICS (STC)

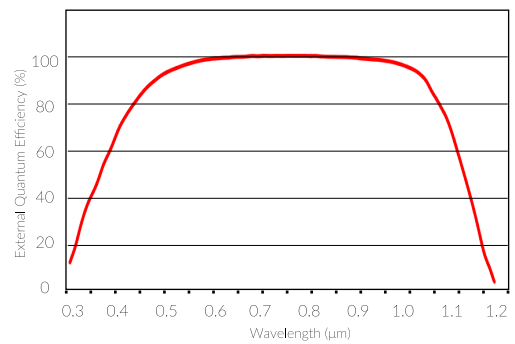
Power Class			HS-G12-245	HS-G12-246	HS-G12-247	HS-G12-248	HS-G12-249	HS-G12-250	HS-G12-251	HS-G12-252
Maximum Power	P <sub>mp</sub>	[W]	5.40	5.42	5.45	5.47	5.49	5.51	5.53	5.56
Short Circuit Current	I <sub>sc</sub>	[A]	8.68	8.67	8.68	8.69	8.70	8.70	8.72	8.72
Open Circuit Voltage	V <sub>oc</sub>	[V]	0.743	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.