20BB-G12 255-262 Series

Heterojunction Solar Cell Great Performace 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 fettering combines with nano-crystalline process to guarantee higher cell efficiency.
- Ultra-low temperature coefficiency ensures more power output in high temperature environment.
- No LID, No PID, lead to zero degradation.

Maximum Module Power

- 20-busbar technology combines half-cell design to deliver higher energy output for maximum cost savings.
- Bifacial constructure 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



Front side



Back side

Mechanical Characteristics

Product	HJT Monocrystalline soalr cell				
Format	20BB, N-type, 210mm*105mm±0.25mm				
Average Thickness (Si)	120µm+20µm/-10µm				
Front Surface(-)	20 soldering pads (silver) Dark blue anti-reflecting ITO coating (Indium tin oxide)				
Back Surface(+)	20 soldering pads (silver) Dark blue anti-reflecting ITO coating (Indium tin oxide)				



ELECTRICAL CHARACTERISTICS (STC)

Power Class			HS-G12-255	HS-G12-256	HS-G12-257	HS-G12-258	HS-G12-259	HS-G12-260	HS-G12-261	HS-G12-262
Maximum Power	Pmpp	[W]	5.62	5.64	5.67	5.69	5.71	5.73	5.75	5.78
Short Circuit Current	lsc	[A]	8.829	8.828	8.827	8.33	8.43	8.851	8.862	8.871
Open Circuit Voltage	Voc	[V]	0.748	0.748	0.749	0.749	0.749	0.749	0.750	0.750
Maximum operating current	impp	[A]	8.374	8.378	8.33	8.396	8.414	8.431	8.447	8.462
Maximum operating voltage	vmpp	[V]	0.672	0.674	0.676	0.678	0.679	0.680	0.681	0.683
Efficiency	η	[%]	25.5	25.6	25.7	25.8	25.9	26.0	26.1	26.2

*PERFORMANCE AT STANDARD TEST CONDITIONS, STC: 1000 W/ m^2 , 25 $^\circ\!\mathrm{C}$, AM 1.5 G

TYPICAL CURRENT/POWER-VOLTAGE CURVES (25.0%)



SPECTRAL RESPONSE



PACKING SPECIFICATIONS			TEMPERATURE COEFFICIENTS		
pcs/box	box/carton	pcs/carton	Power (Pmax)	-0.26%/K	
144	18	2592	Current (lsc)	+0.055%/K	
			Voltage (Voc)	-0.27%/K	

Remind of Storage

If the sealing foil around the cell boxes is demaged, 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.