



HS-20BB-G12 249-256 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 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.



Front side

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



Back side

Mechanical Characteristics

Product	HJT Monocrystalline solar cell
Format	20BB, N-type, 210mm*105mm±0.25mm
Average Thickness (Si)	130μm+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)

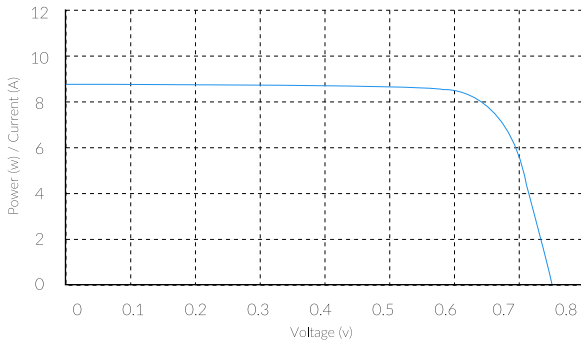


ELECTRICAL CHARACTERISTICS (STC)

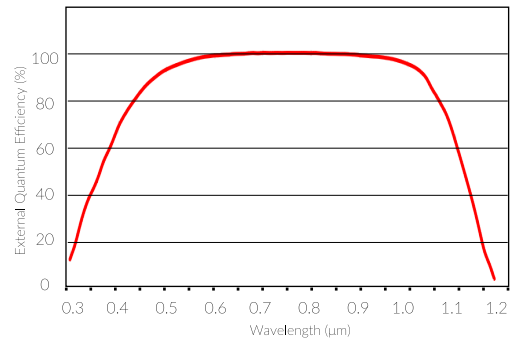
Power Class		HS-G12-249	HS-G12-250	HS-G12-251	HS-G12-252	HS-G12-253	HS-G12-254	HS-G12-255	HS-G12-256
Maximum Power	P _{mp} [W]	5.50	5.52	5.54	5.56	5.58	5.60	5.62	5.65
Short Circuit Current	I _{sc} [A]	8.6787	8.6905	8.7058	8.7205	8.7322	8.7447	8.7564	8.7682
Open Circuit Voltage	V _{oc} [V]	0.7459	0.7462	0.7464	0.7464	0.7467	0.7472	0.7477	0.7480
Maximum operating current	i _{mp} [A]	8.2649	8.2809	8.2984	8.3139	8.3319	8.3607	8.3782	8.3957
Maximum operating voltage	v _{mp} [V]	0.6655	0.6669	0.6680	0.6692	0.6701	0.6701	0.6713	0.6725
Efficiency	η [%]	24.9	25.0	25.1	25.2	25.3	25.4	25.5	25.6

*PERFORMANCE AT STANDARD TEST CONDITIONS, STC: 1000 W/m², 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 _{max})	-0.26%/K
Current (I _{sc})	+0.055%/K
Voltage (V _{oc})	-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.