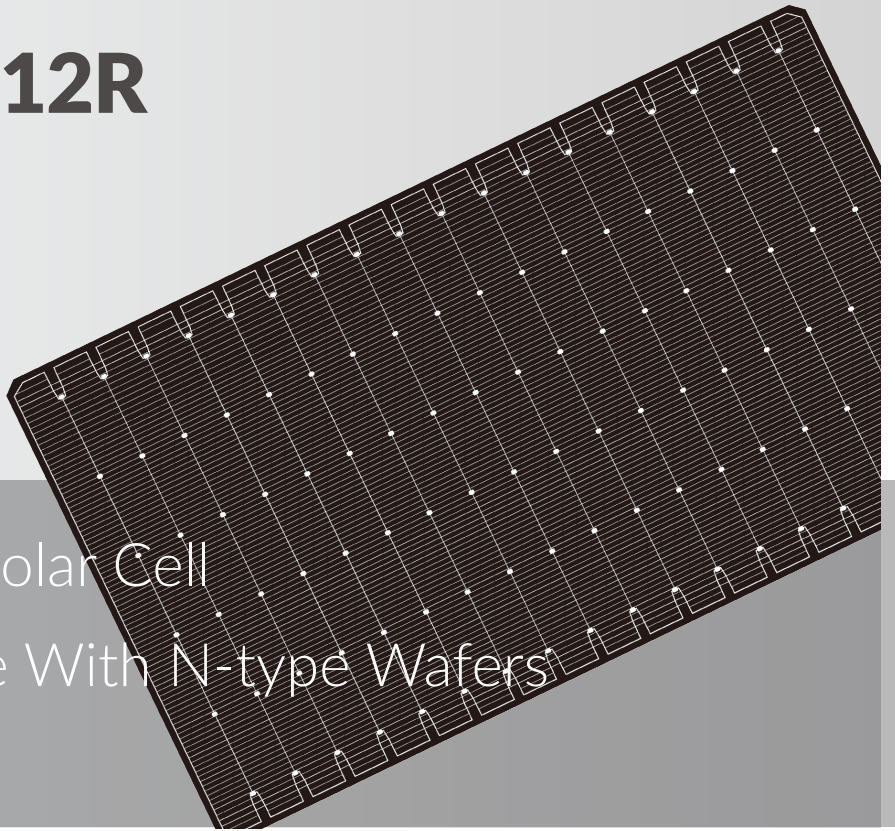




# HS-18BB-G12R 254-261 Series

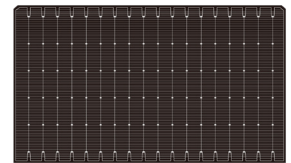


Heterojunction Solar Cell  
Great Performance With N-type Wafers

HJT solar cell is a new generation superior bifacial solar cell made out of N-type wafer, which combine the advantages of crystalline silicon and thin film technologies, with excellent light absorption and passivation effects. As one of the most high efficiency cell technology in the market, HJT ensures that solar cells deliver high efficiency and great power even in various climates, for better power generation performance.

#### Higher Cell Efficiency

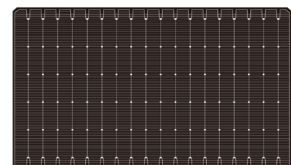
- Phosphorus gettering combines with double sided microcrystalline process to guarantee high cell efficiency.
- Ultra-low temperature coefficient ensures more power output in high temperature environment.
- No LID, No PID, lead to better energy yield.



Front side

#### Maximum Module Power

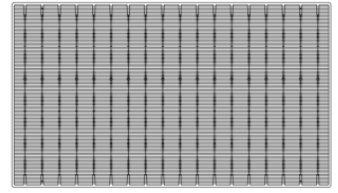
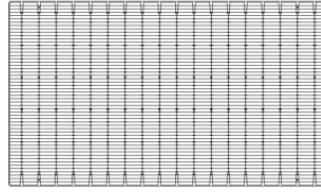
- Rectangular wafer, perfect module design, covering full range application scenarios for maximum cost savings.
- Bifacial constructure higher bifaciality, ensure higher power gain from backside
- Extreme low LID and PID supports reliability and longevity.
- Lower LCOE cost by HJT solar system



Back side

## Mechanical Characteristics

Product	HJT Monocrystalline solar cell
Format	18BB, N-type, 182mm*105mm±0.15mm
Average Thickness (Si)	110μm +20μm/-10μm
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)

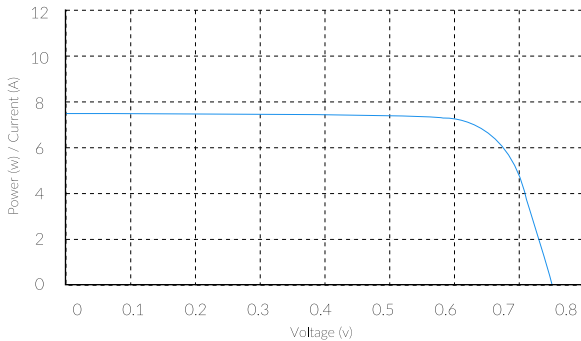


## ELECTRICAL CHARACTERISTICS (STC)

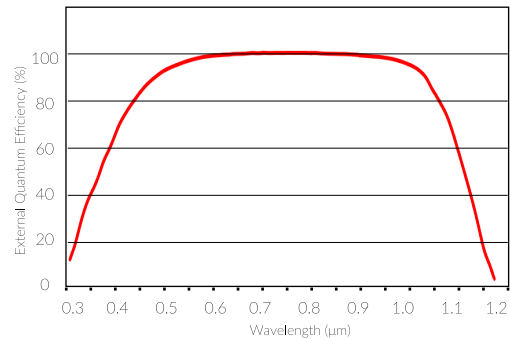
Power Class		HS-G12R-254	HS-G12R-255	HS-G12R-256	HS-G12R-257	HS-G12R-258	HS-G12R-259	HS-G12R-260	HS-G12R-261
Maximum Power	Pmpp [W]	4.85	4.87	4.89	4.91	4.93	4.95	4.97	4.99
Short Circuit Current	Isc [A]	7.6522	7.6575	7.6638	7.6717	7.6778	7.6883	7.6978	7.7020
Open Circuit Voltage	Voc [V]	0.7520	0.7522	0.7524	0.7528	0.7530	0.7533	0.7536	0.7539
Maximum operating current	impp [A]	7.2533	7.2583	7.2643	7.2718	7.2775	7.2875	7.2965	7.3004
Maximum operating voltage	vmpp [V]	0.6700	0.6715	0.6730	0.6747	0.6764	0.6775	0.6786	0.6797
Efficiency	η [%]	25.4	25.5	25.6	25.7	25.8	25.9	26.0	26.1

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

### TYPICAL CURRENT/POWER-VOLTAGE CURVES



### SPECTRAL RESPONSE



### PACKING SPECIFICATIONS

pcs/box	box/carton	pcs/carton
144	18	2592

### TEMPERATURE COEFFICIENTS

Power (Pmax)	-0.26%/K
Current (Isc)	+0.055%/K
Voltage (Voc)	-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.