

# 25.5% **ULTRA-HIGH CONVERSION EFFICIENCY**

G12-20BB Series High-Efficiency Heterojunction (HJT) Solar Cell

## Half-cut Bifacial



As one of the best in the new generation of high-efficiency solar cells, HJT technology lead a new round of revolution in PV technology. With a single hybrid structure integrating the advantages of crystalline silicon and amorphous silicon thin film technology, HJT solar cell has the advantages of high efficiency and stability with a low-temperature and simplified manufacturing procedures. Extremely low temperature coefficient so as to avoid LID and PID effect. There is no color difference between the front and back side, the bifaciality is more than 95%. The backside has an obvious advantage in power generation, which ensures a stable and high efficiency power output regardless of seasonal circulation and climate change.



#### **Higher Cell Conversion Efficiency**

Average conversion efficiency higher than 25%



**Higher Power Output** Power gains 10% more than the conventional solar cells



Bifaciality Up to 95% bifaciality



Zero Degradation No PID and LID effect



Lower Temperature Coefficient -0.26% Low temperature coefficient





#### **Mechanical Performance**

Product	High-efficiency Monocrystalline HJT Solar Cell (Half-cut)
Specification	N-type, 20BB, 210mm*105mm±0.15mm
Average Thickness	110±15µm, 120±15µm
Front Side (-)	Front busbars (silver) 20 *0.04 mm with padding point; Blue Transparent Conductive Oxide (TCO) Film
Back Side (+)	Back Busbars (silver) 20 *0.04mm with padding point; Blue Transparent Conductive Oxide (TCO) Film

Max. Power	Pmax	-0.26%/K	
Short-Circuit Current	lsc	+0.055%/K	
Open-Circuit Voltage	Voc	-0.27%/K	

Backside

**Temperature Coefficient** 

### **Electrical Performance**

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Cell Type	Unit	LS-210M 255	LS-210M 254	LS-210M 253	LS-210M 252	LS-210M 251	LS-210M 250	LS-210M 249	LS-210M 248	L	_S-210M 255	LS-210M 247	LS-210M 240
Max. Power	Pmpp [W]	5.62	5.6	5.58	5.56	5.53	5.51	5.49	5.47		5.34	5.18	5.03
Current at the Max. Power Point	mpp [A]	8.307	8.286	8.266	8.245	8.223	8.216	8.193	8.176		7.855	7.710	7.616
Voltage at the Max. Power Point	Vmpp [V]	0.677	0.676	0.675	0.674	0.673	0.672	0.671	0.67		0.68	0.672	0.661
Short-Circuit Curren	t Isc [A]	8.695	8.688	8.68	8.673	8.66	8.654	8.653	8.642		8.315	8.250	8.211
Open-Circuit Voltage	e Voc [V]	0.75	0.7495	0.7492	0.749	0.7487	0.7484	0.7482	0.7478		0.750	0.748	0.745
Filling Factor	FF	86.21	85.99	85.77	85.52	85.34	85.10	84.79	84.60		85.64	83.86	82.16
Efficiency	η [%]	25.5	25.4	25.3	25.2	25.1	25	24.9	24.8		24.23	23.47	22.80

\* Test conditions: 1,000 W/m2, AM1.5, 25°C; The above technical performance is subject to technical changes and tests, and Leascend Photovoltaic reserves the right of final interpretation.



#### **Packing Information**

#### Storage Instructions

Pcs./box	Boxes/Carton	Pcs./ Carton	1. Please keep the cells at room temperature in a dry and clean environment.					
120pcs	16boxes	1920pcs	2. Please process the cells within 10 days after opening the seal.					



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