

Suzhou Runergy PV technology Co., Ltd.

Product Specification	Product Name	Mono perc solar cells
	Document Name	Specification for Five Busbar Mono Perc Half cells-TH
	Document Number	PS-C-0044
	Revision Number	A

1.0 Range of application

This specification applies to Runergy solar cells and builds up the character and working condition of solar cells.

2.0 Product list

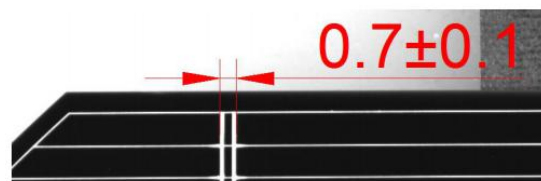
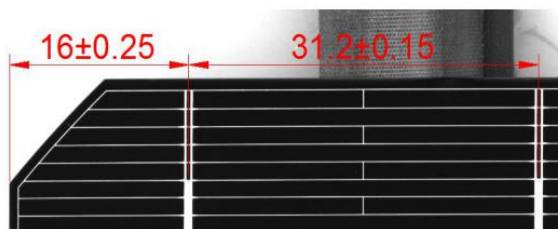
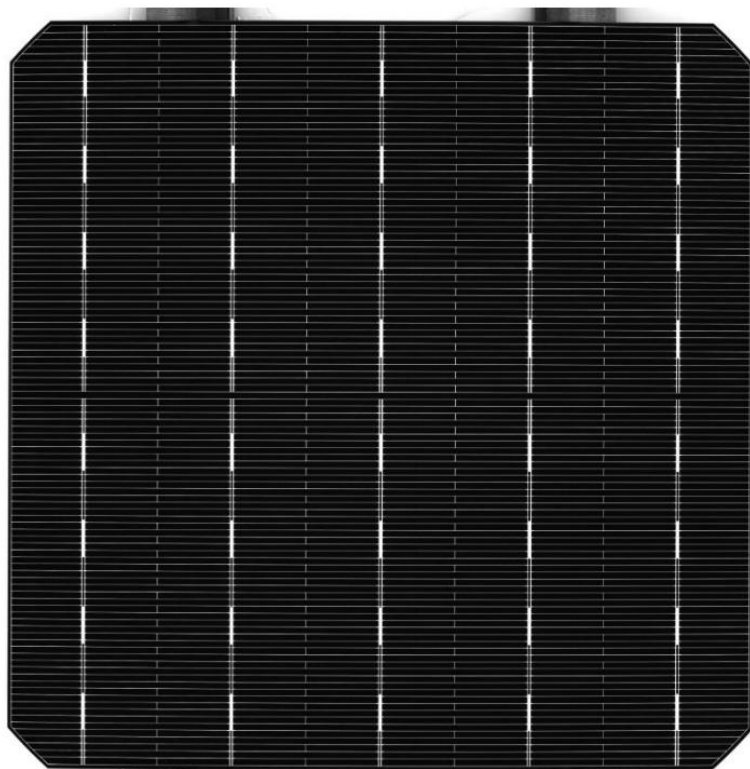
Silicon type	Size	Front electrode pattern
Mono-crystalline	156.75*156.75±0.25φ210mm	Five busbar,width: 0.70mm, interval: 31.2mm

2.2 Solar cells model code: PM25BF5B1

3.0 Product specification

3.1 Solar cell structure

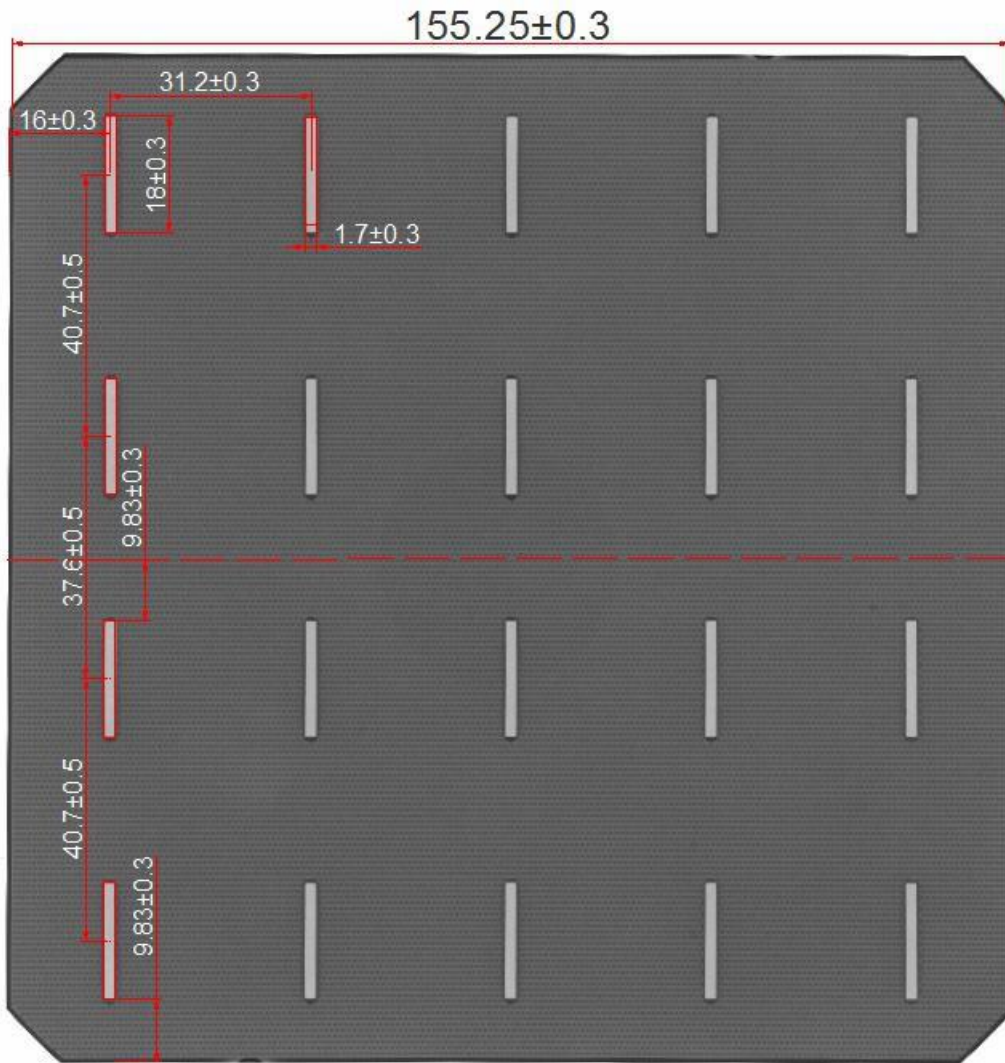
3.1.1 Front electrode



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3.1.2 Rear electrode and BSF



Parameter items		Standard	Tolerance	Unit	
Front surface	A	Finger number	108	N/A	Line
	B	Busbar width	0.64	±0.1	mm
	C	Busbar interval	31.2	±0.15	mm
	D	Distance between center line of the left (right) busbar and the left (right) wafer edge	15.8	0.15	Deg
Rear surface	a	Grid width	1.7	±0.3	mm
	b	Grid interval	31.2	±0.3	mm
	c	Distance between center line of the left (right) rear grid and the left(right) wafer edge	15.8	±0.3	mm

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3.2 Electrical performance

3.2.1 Efficiency grade and electrical characteristic

Eff (%)	Efficiency	Pmpp(W)	Impp (A)	Vmpp (V)	Isc (A)	Voc(V)
21.9	21.9-22.0	5.35	9.272	0.577	9.78	0.674
21.8	21.8-21.9	5.33	9.246	0.576	9.76	0.673
21.7	21.7-21.8	5.30	9.233	0.574	9.74	0.670
21.6	21.6-21.7	5.28	9.233	0.572	9.72	0.669
21.5	21.5-21.6	5.25	9.227	0.569	9.69	0.667

3.2.2 Electrical properties in STC standard

Standard Test Condition (STC)

a. Intensity: 1000 W/m²

b. Spectrum: AM1.5

c. Temperature: 25±2 °C

3.2.3 Temperature coefficient

a. Voc: -0.3 %/°C

b. Isc: +0.06 %/°C

c. Pm: -0.39 %/°C

3.3 Standard

Thickness of solar cells: 200±20μm