

AK iCell

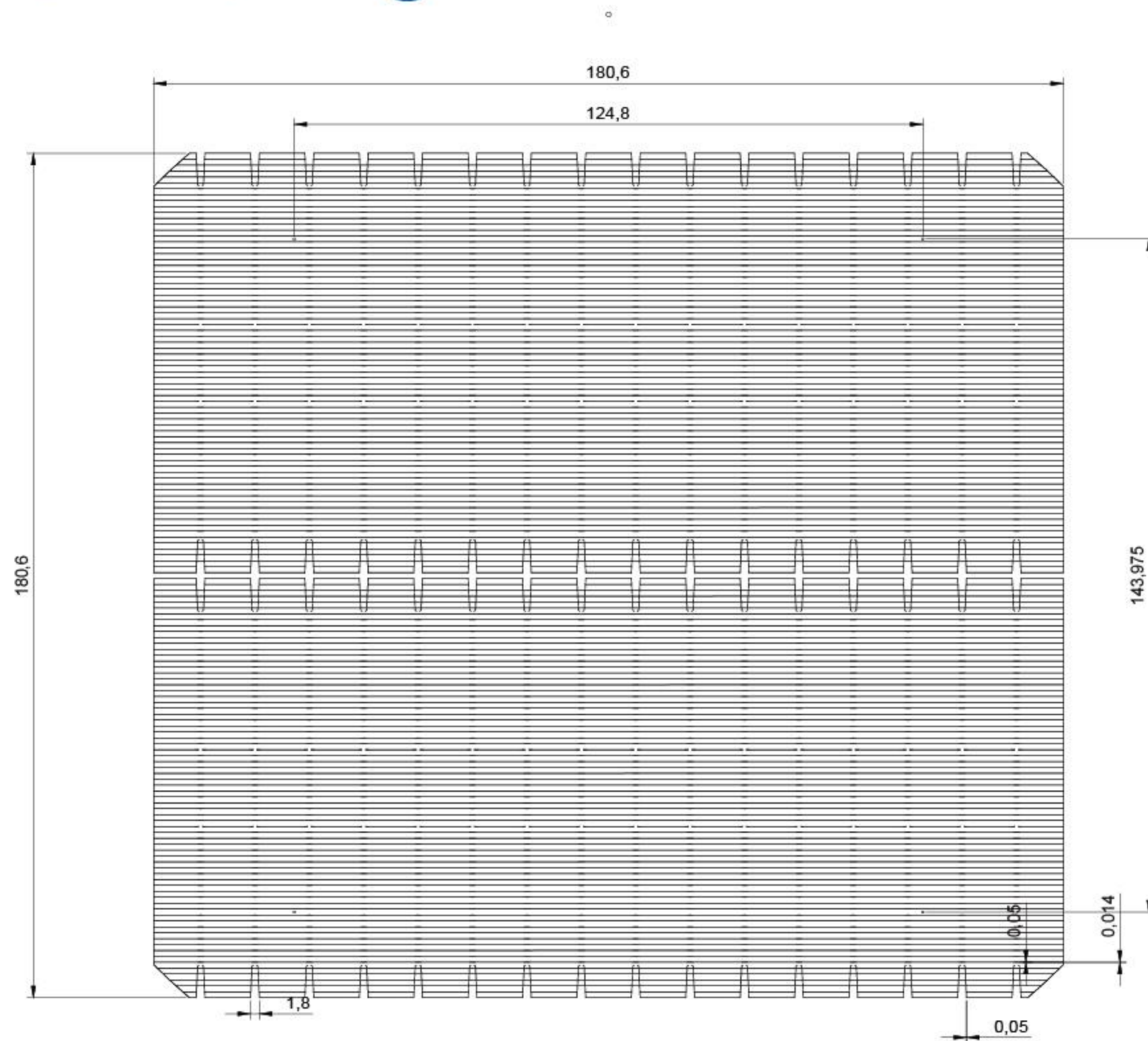
High Efficiency TOPCon Cell

M10 | 182 Bifacial

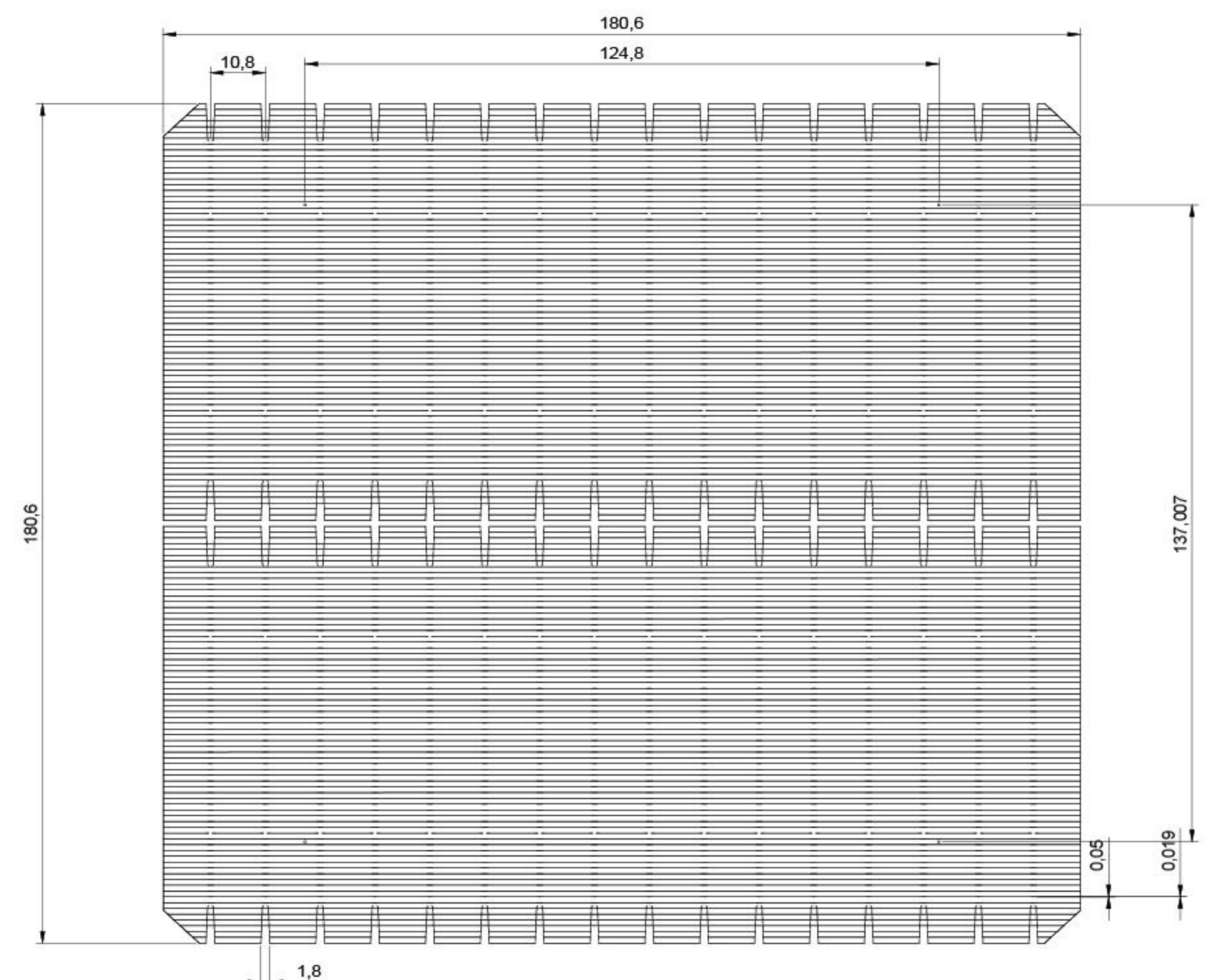
AKC/AK GK/3-MD-001



Cell Drawing



Front



Back

Advantages of Bifacial PV Modules



Efficiency

Average efficiency over 24.5%



Bifaciality

Bifaciality above 85%



Low light response

Low radiation conditions such as morning and evening, cloudy and rainy days can still generate electricity.



Power Generation

Power generation gain up to 12%+



Temperature Coefficient

Power temperature coefficient $-0.30\%/^{\circ}\text{C}$



Low degradation

Excellent PID and LID resistance performance

Main Parameters

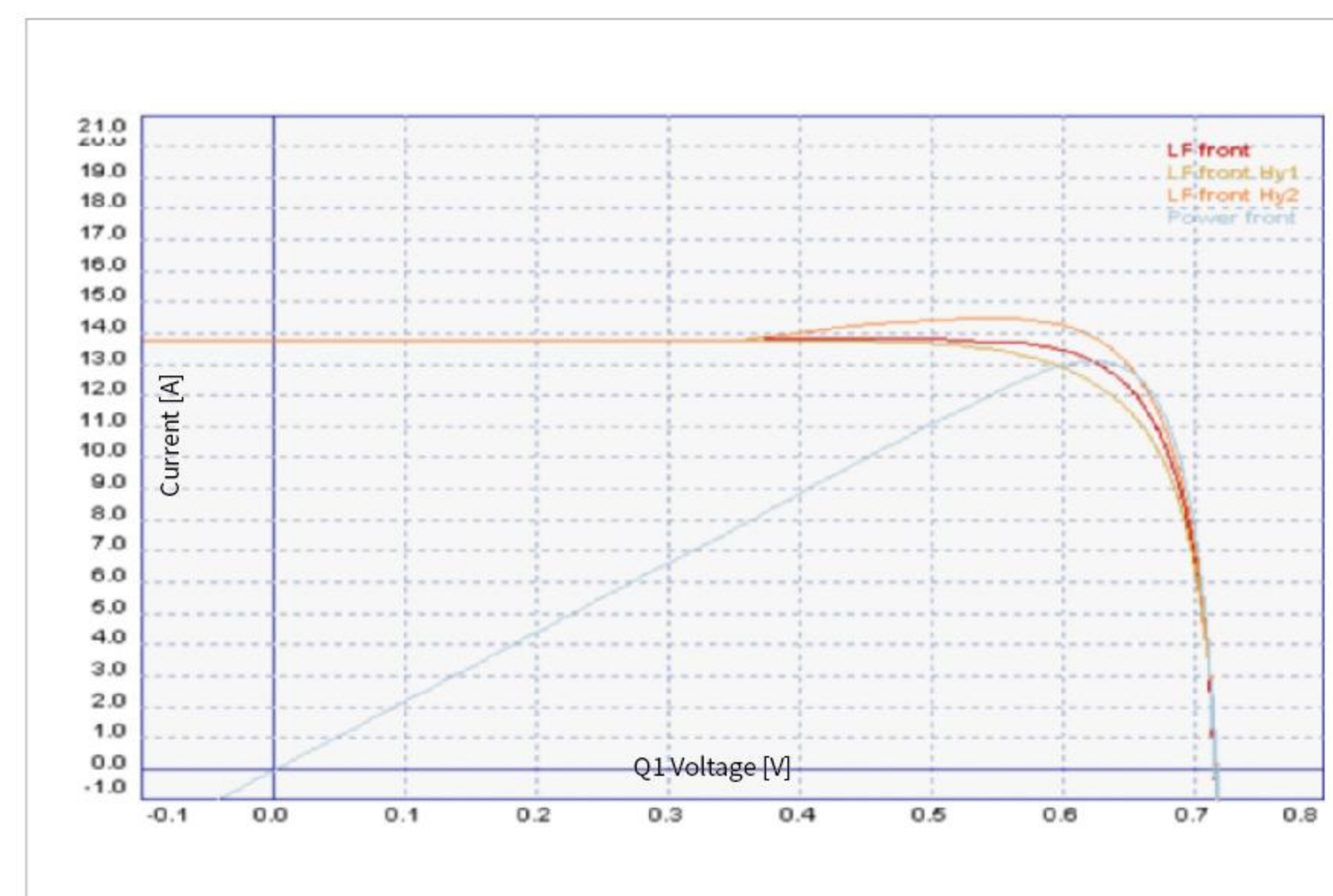
Frontal electrical property distribution

Eff (%)	Pmpp (W)	Uoc (V)	Isc (A)	FF (%)	Umpp (V)	Impp (A)
25.5	8.44	0.7175	14.247	82.52	0.6165	13.680
25.4	8.40	0.7166	14.212	82.51	0.6156	13.635
25.3	8.37	0.7157	14.177	82.49	0.6147	13.606
25.2	8.34	0.7148	14.142	82.47	0.6137	13.582
25.1	8.30	0.7138	14.107	82.46	0.6128	13.547
25	8.27	0.7129	14.064	82.49	0.6119	13.504
24.9	8.24	0.7121	14.031	82.44	0.6111	13.469
24.8	8.20	0.7113	13.994	82.42	0.6103	13.434
24.7	8.17	0.7104	13.959	82.4	0.6094	13.399
24.6	8.14	0.7096	13.924	82.37	0.6086	13.364
24.5	8.10	0.7088	13.889	82.33	0.6078	13.329
24.4	8.07	0.708	13.854	82.3	0.607	13.294
24.3	8.04	0.7072	13.819	82.26	0.6062	13.258
24.2	8.01	0.7066	13.783	82.2	0.6056	13.223
24.1	7.97	0.7061	13.743	82.16	0.6051	13.183
24.0	7.94	0.7047	13.703	82.22	0.6037	13.143

Rear electrical property distribution

Eff (%)	Pmpp (W)	Uoc (V)	Isc (A)	FF (%)	Umpp (V)	Impp (A)
>23.1	7.70	0.6983	13.486	81.75	0.6075	12.919
22.9-23.0	7.61	0.6965	13.384	81.62	0.5939	12.817
<22.9	7.54	0.6916	13.372	81.55	0.5845	12.805

Characteristic Curve



Front IV Curve

Specification

SIZE	182 mm*182 mm ± 0.025 mm
Material	N type wafer
Thickness	130 ± 15 μm ; 140 ± 15 μm
Front(-)	16 BB, Front 12 parts, 160 Fingers, Busbar width 0.03 ± 0.015mm
Back(+)	16 BB, Rear 12 parts, 146 Fingers, Busbar width 0.03 ± 0.015mm

Temp. Coefficient

a	Voltage (Voc) : ~ -0.25%/°C
b	Current (Isc) : ~ 0.045%/°C
c	Power (Pm) : ~ -0.32%/°C

Packaging Information

Case/Box	PCS/Case	PCS/Box	Length(cm)	Width(cm)	Height(cm)	Weight(kg)
16	120	1920	48.0	36.0	27.0	21.49