



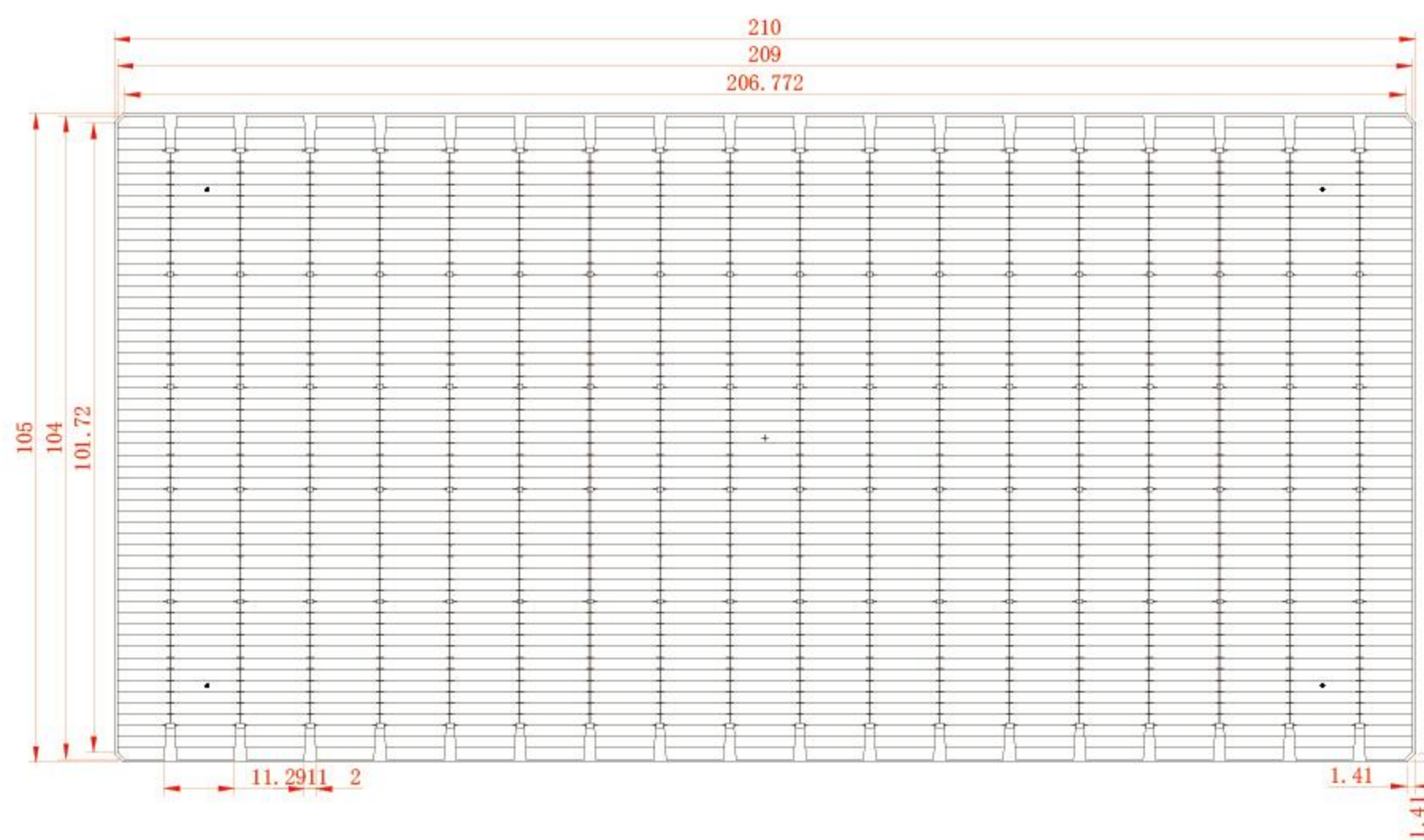
High Efficiency HJT Cell

G12 | 210 Half-cut Bifacial

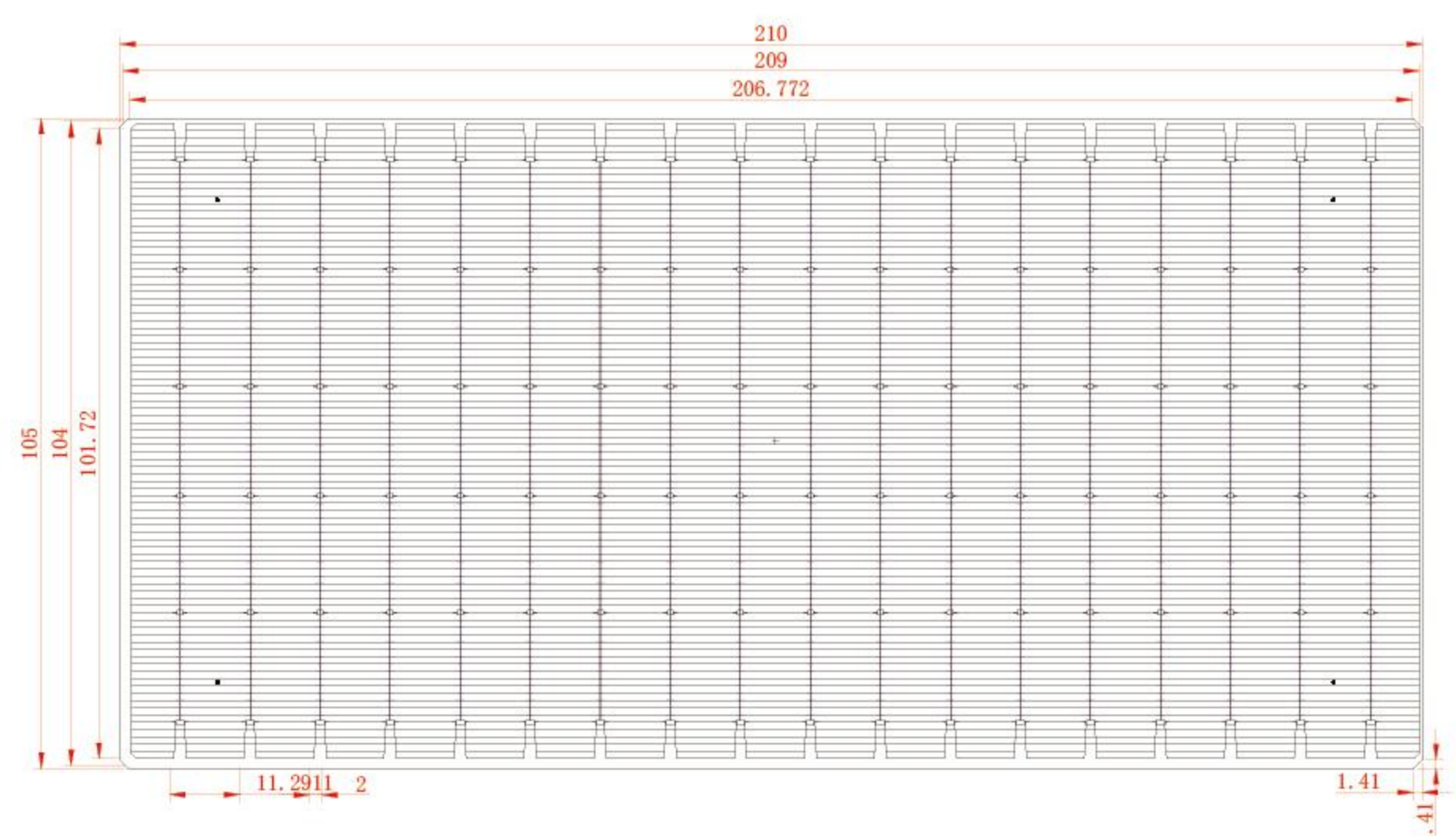
AKC-MHG1218/N01



Cell Drawing



Front



Back

Advantages of Bifacial PV Modules



Efficiency

Average efficiency over 24.7%



Power Generation

Power generation gain up to 15%+



Bifacial Coefficient

High bifacial coefficient of > 95%



Technique

4-step technique



Wastewater

Zero NH3-N Wastewater



Mass Production

Mass production capability of 100um-thick silicon



Temperature

Production temperature less than 250°C



Yield

Average yield up to 99%



No Attenuation

No PID. LID effect



Temperature Coefficient

Lower temperature coefficient

Main Parameters

Frontal electrical property distribution

Eff (%)	Pmpp (W)	Uoc (V)	Isc (A)	FF (%)	Umpp (V)	Impp (A)
25.8	5.62	0.7500	8.712	87.09	0.680	8.368
25.7	5.60	0.7498	8.702	86.87	0.679	8.348
25.6	5.58	0.7495	8.695	86.64	0.678	8.327
25.5	5.56	0.7492	8.688	86.40	0.677	8.307
25.4	5.53	0.7490	8.680	86.16	0.676	8.286
25.3	5.51	0.7487	8.673	85.93	0.675	8.266
25.2	5.49	0.7484	8.660	85.74	0.674	8.245
25.1	5.47	0.7482	8.654	85.47	0.673	8.223
25.0	5.45	0.7478	8.653	85.33	0.672	8.216
24.9	5.42	0.7472	8.642	85.14	0.671	8.193
24.8	5.40	0.7470	8.641	84.87	0.670	8.176
24.7	5.38	0.7469	8.641	84.47	0.668	8.161
24.6	5.36	0.7465	8.636	84.28	0.667	8.146
24.6	5.34	0.7461	8.630	84.12	0.664	8.128
24.5	5.31	0.7456	8.626	83.87	0.664	8.118
24.3	5.29	0.7452	8.621	83.52	0.661	8.117

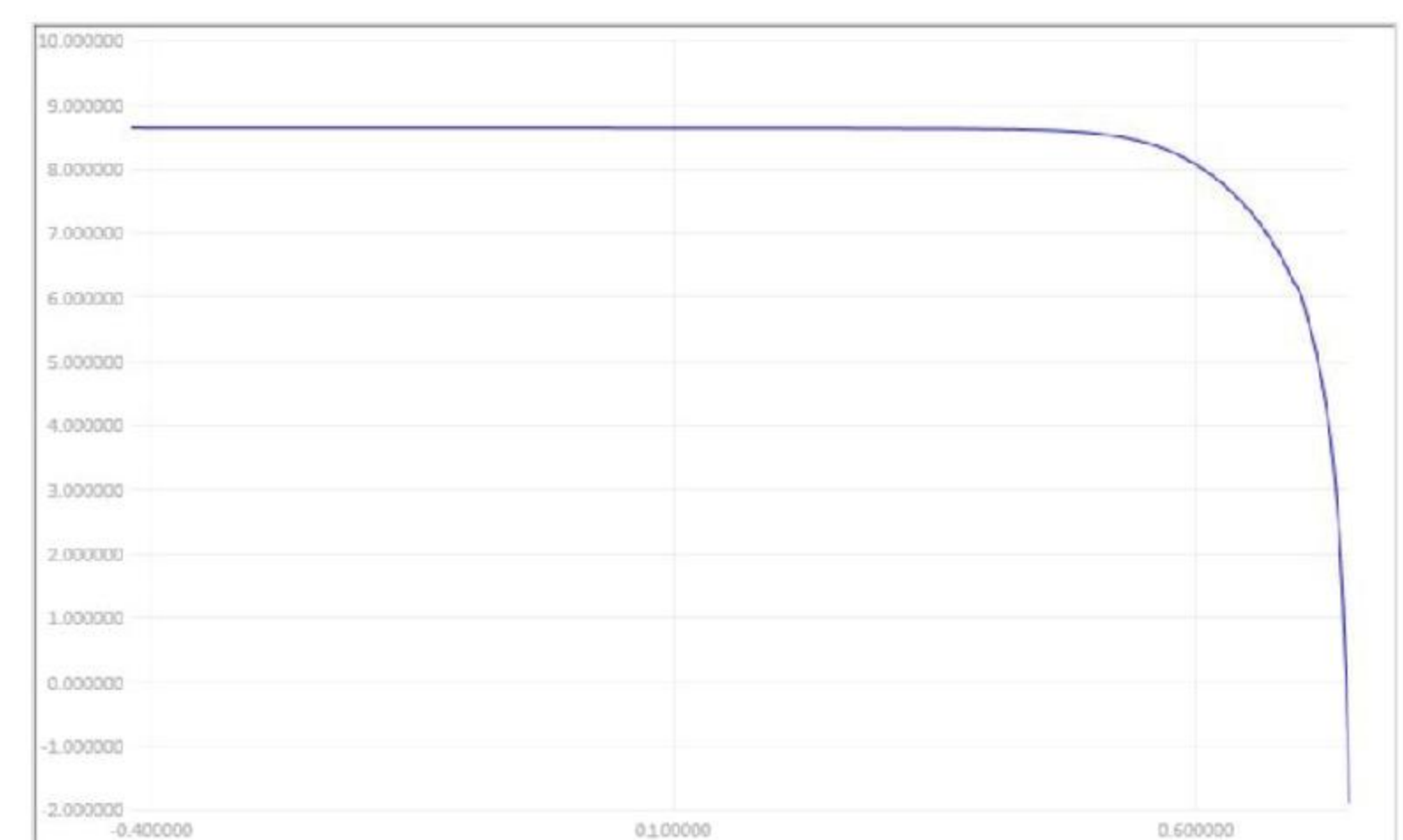
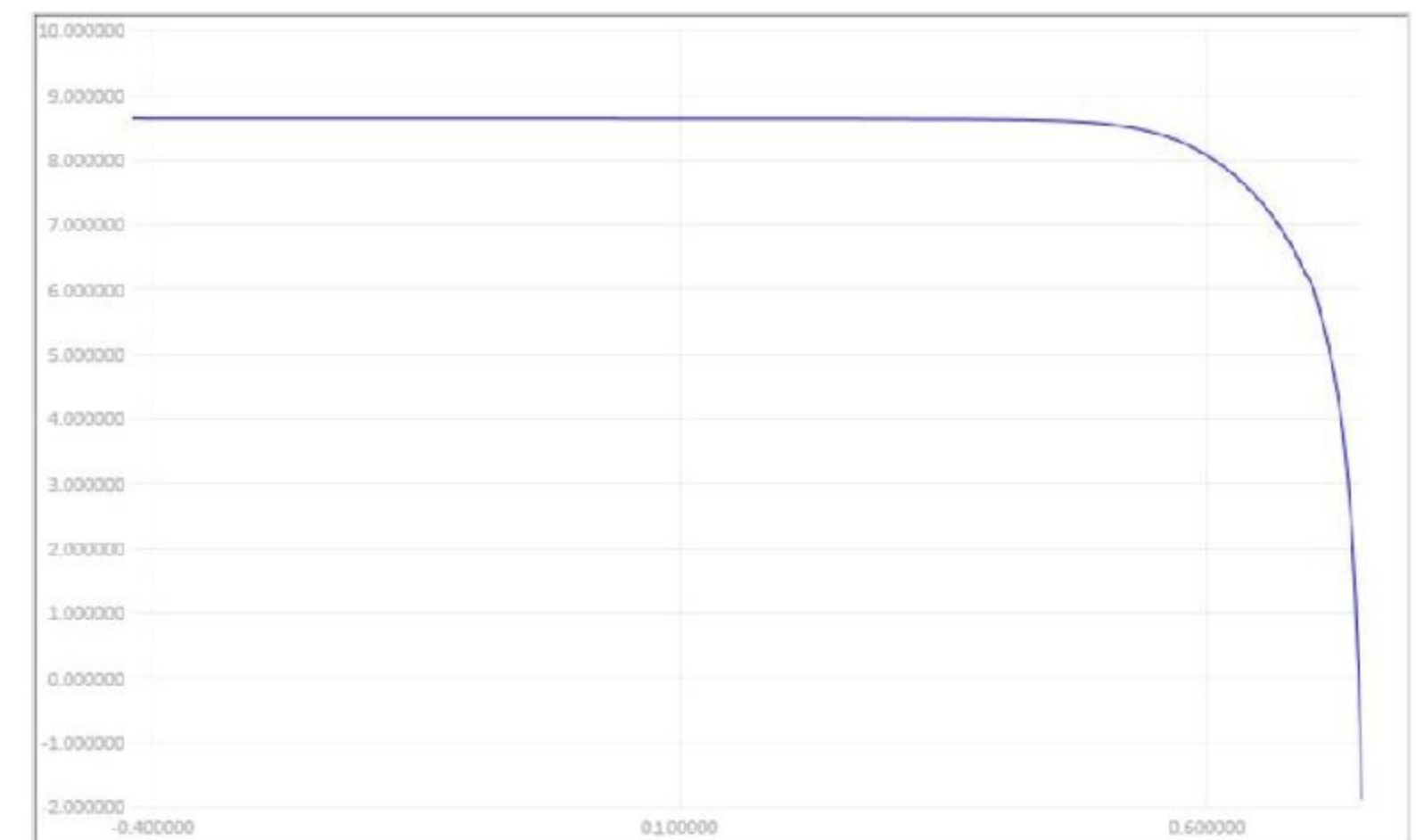
Rear electrical property distribution

Eff (%)	Pmpp (W)	Uoc (V)	Isc (A)	FF (%)	Umpp (V)	Impp (A)
> 23.1	5.10	0.749	8.094	84.01	0.659	7.752
22.9-23.0	5.08	0.748	8.075	83.96	0.658	7.736
< 22.9	5.05	0.747	8.082	83.63	0.657	7.678

Packaging Information

thickness	case/box	pcs/case	pcs/box	length (cm)	width (cm)	height (cm)	weight (kg)
130/120	18	140	2520	53.5	37.5	18	17±1
110	18	150	2700	53.5	37.5	18	17±1

Characteristic Curve



Specification

Size	210 mm*105 mm ± 0.25 mm
Material	N-type mono crystalline silicon
Thickness	120 ± 20 μm; 110 ± 20 μm
Front (-)	18*0.04mm main grid line (Ag), 58 ± 8 secondary grid lines (Ag), Blue transparent conductive film(TCO)
Back (+)	18*0.04mm main grid line (Ag), 88 ± 14 secondary grid lines (Ag), Blue transparent conductive film(TCO)

Temp. Coefficient

a	Voltage (Voc) : ~ -0.27%/°C
b	Current (Isc) : ~ 0.055%/°C
c	Power (Pm) : ~ -0.258%/°C