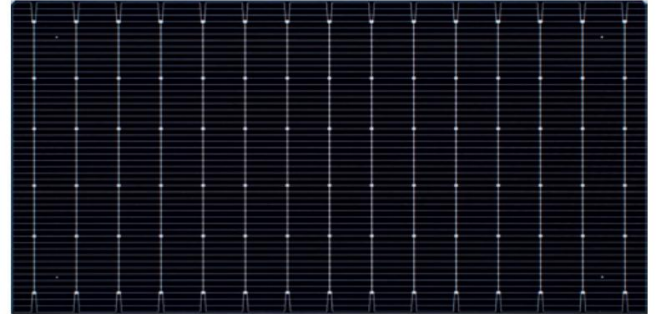
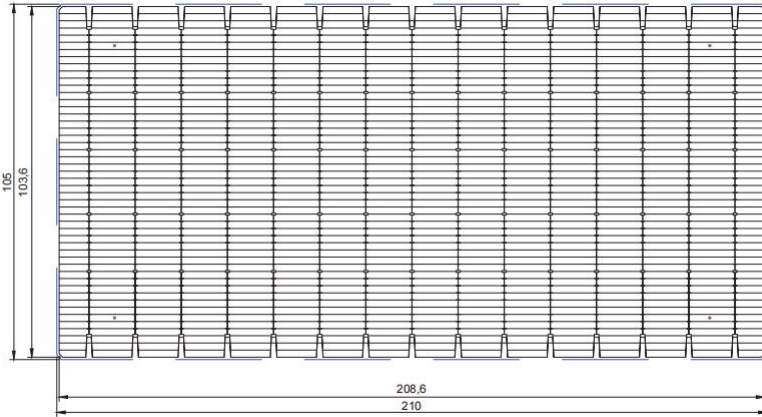


# HD SOLAR

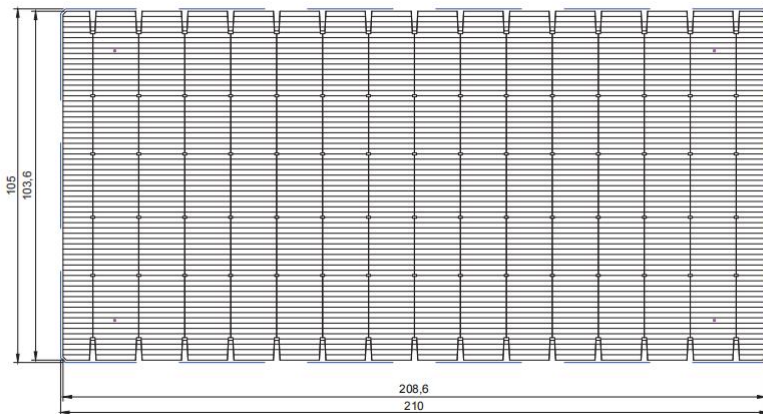
## N-TYPE HJT HALF CELL

Monocrystalline silicon G12 210×105mm 15BB solar cells

Front side



Real side



### MECHANICAL DATA AND DESIGN

Format 210mm×105mm±0.25mm

Diameter 223±0.25mm(round chamfers)

Thickness 130μm +20/-10μm

Front(-) 15\*0.06mm wide bus bars,

54 finger grids ( Silicon nitride) TCO

Back(+) 15\*0.06mm wide bus bars wide discontinuous soldering pads

74Aluminum fingers ( Silicon nitride) TCO

### TEMPERATURE COEFFICIENTS

Voltage -0.27%/K

Current +0.055%/K

Power -0.26%/K

## Product Feature

High conversion efficiency up to 25.50%

LID Non

PID Non

Power temperature coefficient  $\leq -0.27\%/^{\circ}\text{C}$

Weak light response ( $200\text{w}/\text{m}^2$ )  $\geq 95\%$

Lower CTM loss, better for the high efficiency module

## Quality Control

The accuracy of the efficiency test is controlled at  $\pm 0.1\%$

100% automatic inspection of IV/EL/Appearance

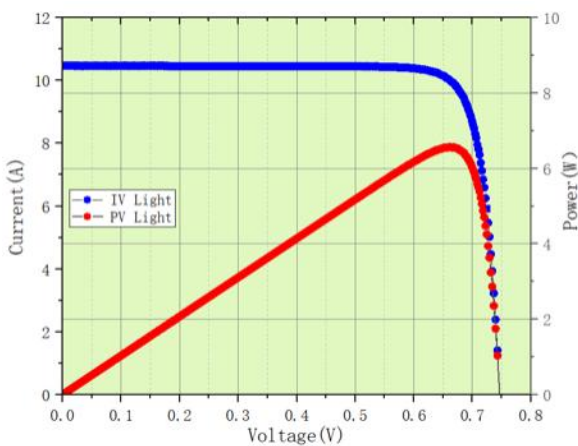
Calibration cell source to fraunhofer ISE

Efficiency(%)	Pmpp(W)	Ump(V)	Imp(A)	Uoc(V)	Isc(A)
25.50	5.62	0.675	8.328	0.748	8.789
25.40	5.60	0.674	8.308	0.747	8.786
25.30	5.58	0.673	8.288	0.746	8.773
25.20	5.56	0.672	8.267	0.745	8.753
25.10	5.53	0.671	8.247	0.744	8.732
25.00	5.51	0.670	8.226	0.743	8.710
24.90	5.49	0.669	8.205	0.742	8.694
24.80	5.47	0.668	8.185	0.741	8.679
24.70	5.45	0.667	8.164	0.740	8.659
24.60	5.42	0.666	8.143	0.739	8.641
24.50	5.40	0.665	8.122	0.738	8.628

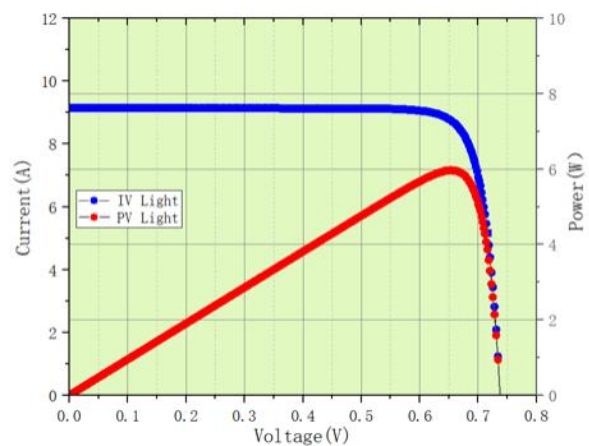
Standard test conditions:  $1000\text{w}/\text{m}^2$ , AM 1.5,  $25^{\circ}\text{C}$

Specifications and data are only for reference

Front IV



Back IV



Specifications subjects to technical changes and tests. HD Solar reserves the right of final interpretation.

Specifications subject to technical changes 12.2023 HD Solar