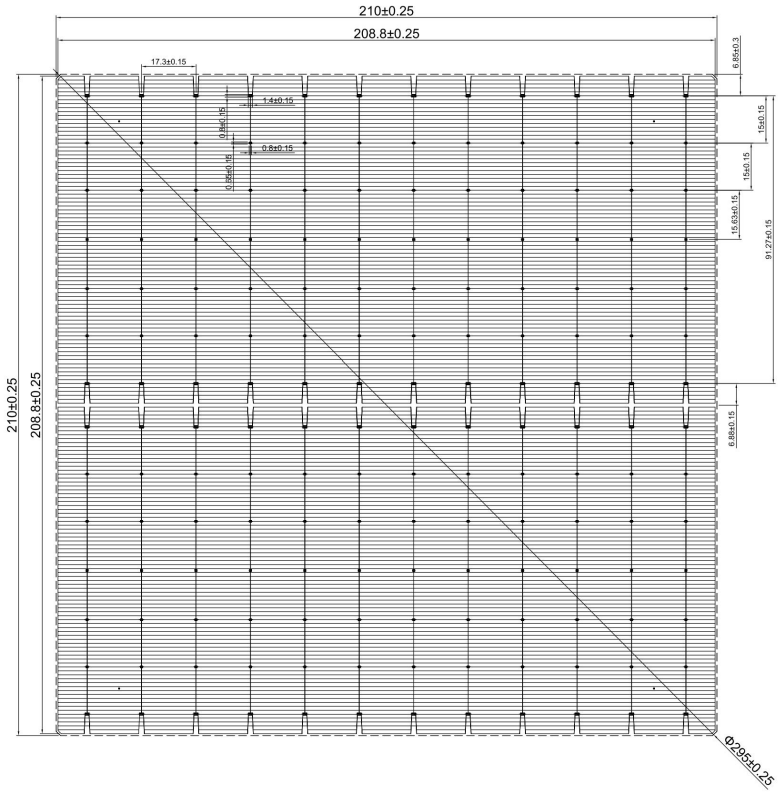
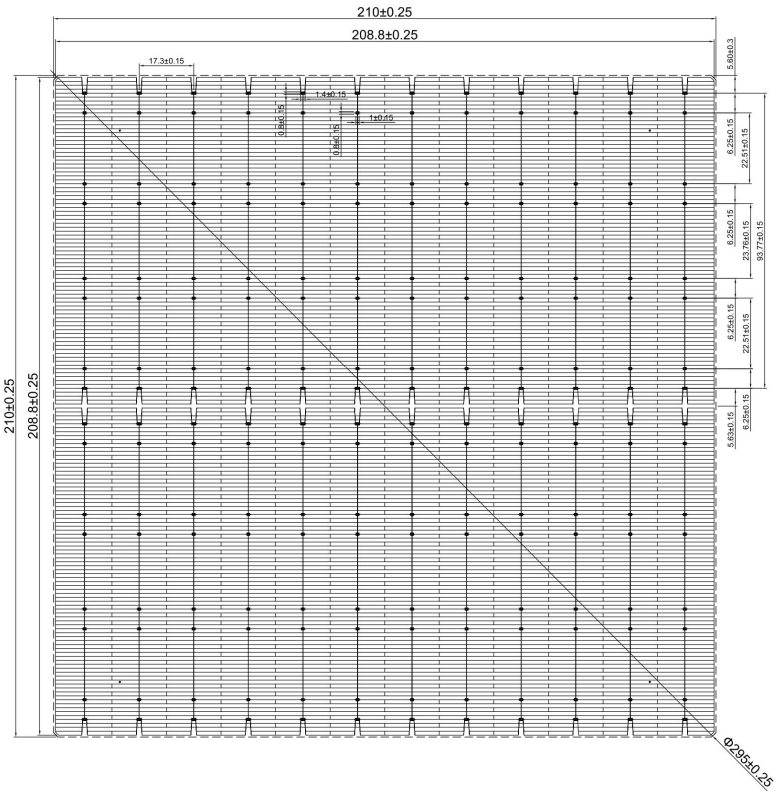
HD SOLAR

N Type BIFACIAL G12
Monocrystalline silicon 210 12BB

Front side



Back side



MECHANICAL DATA AND DESIGN		TEMPERATURE COEFFICIENTS	
Format	210mm×210mm±0.25mm	Voltage	-0.25%/K
Diameter	295±0.25mm	Current	+ 0.045%/K
Thickness	170μm±20μm	Power	-0.32%/K
Front(-)	0.06± 0.03mm wide bus bar. 168 finger grids Silicon anti-reflection coating		
Back(+)	0.06±0.03mm side bus bars, 168 finger grids Silicon nitride coating		

Product Feature

High conversion efficiency up to 24.5%
Bifaciality ≥ 80%
"0" LID(Light Induced Degradation)
High resistance of PID(Potential Induced Degradation)
Power temperature coefficient ≤-0.35%/℃
Weak light response (200w/m^2)≥97%
Lower CTM loss,better for the high efficiency module

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Quality Control

Efficiency test accuracty is ±0.1%

100% automatic inspection of IV/EL/Appearance

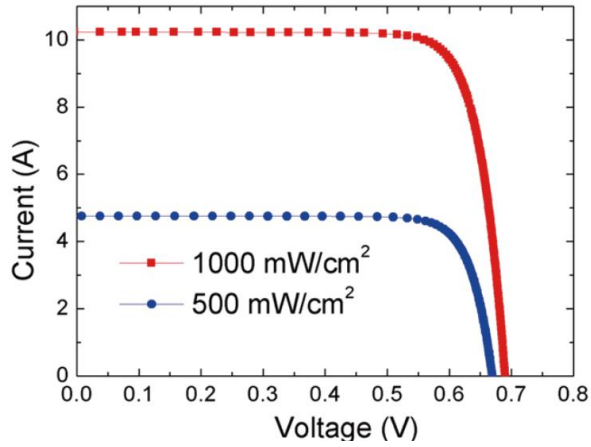
Calibration cell Soure to Fraunhofer ISE

Efficiency(%)	Pmpp(W)	Umpp(v)	Impp(A)	Uoc(V)	Isc(A)	FF(%)
24.5%	10.80	0.625	17.286	0.710	18.171	83.74
24.4%	10.76	0.623	17.270	0.709	18.160	83.57
24.3%	10.72	0.621	17.255	0.708	18.148	83.40
24.2%	10.67	0.619	17.239	0.707	18.133	83.24
24.1%	10.63	0.617	17.224	0.706	18.121	83.07
24.0%	10.58	0.615	17.208	0.705	18.112	82.88
23.9%	10.54	0.613	17.192	0.704	18.105	82.69
23.8%	10.49	0.611	17.177	0.703	18.098	82.49
23.7%	10.45	0.609	17.161	0.702	18.091	82.29
23.6%	10.41	0.607	17.144	0.701	18.084	82.09
23.5%	10.36	0.605	17.128	0.700	18.077	81.89

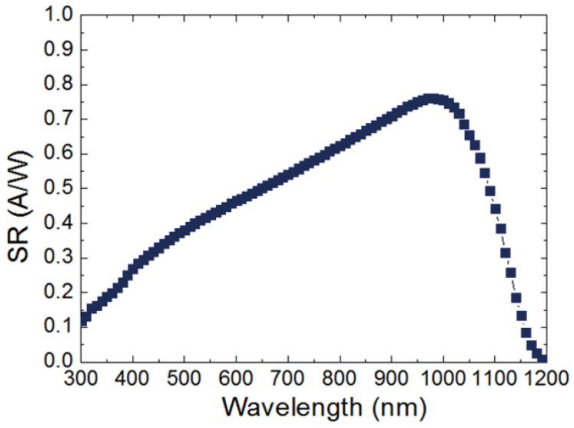
*Under standard test condition: Irradiance=1000W/ m², Ambient Temperature=25℃, AM=1.5 Illustaration:23.1% → Actual Range: 23.1%~23.2%

Specifications and data are for reference only. If there is any change, notice will be given separately

IV Curve >



Spectral Response (SR) >



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

Specifications subject to technical changes 8.2021 HD Solar

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