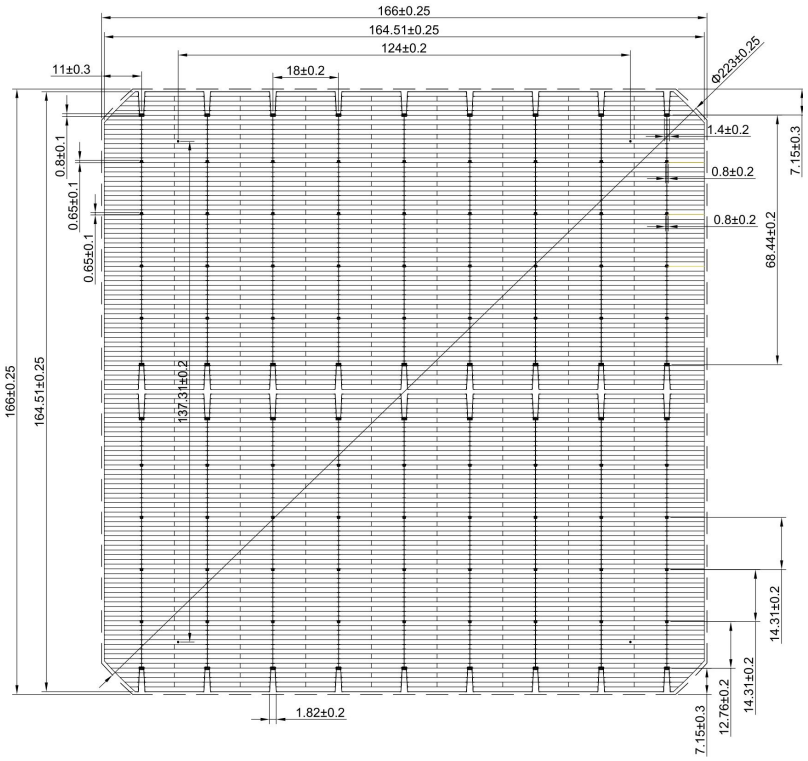
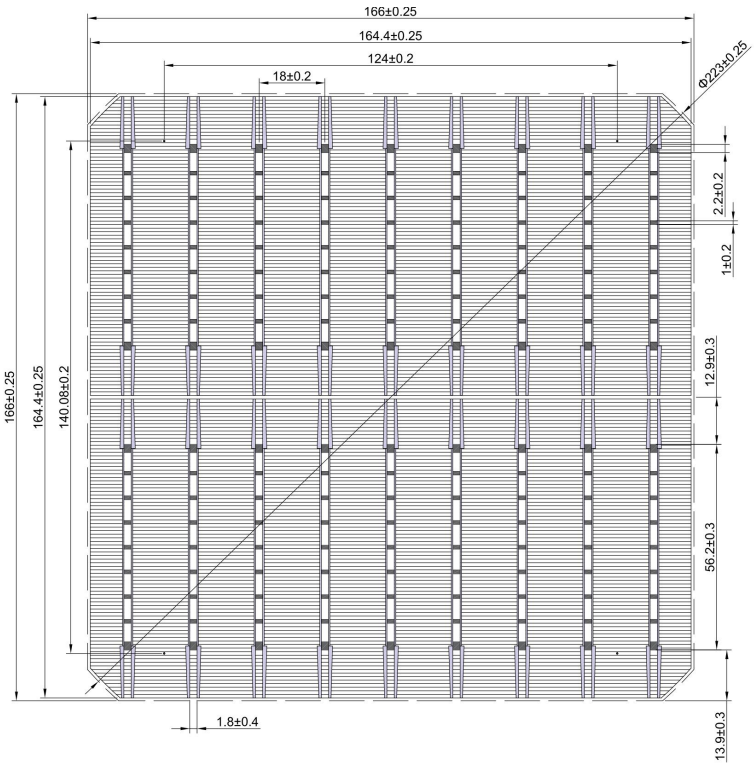
HD SOLAR

P-TYPE PERC

Monocrystalline silicon M6 166×166mm 9BB solar cells





MECHANICAL DATA AND DESIGN		TEMPERATURE COEFFICIENTS	
Format	166mm×166mm±0.25mm	Voltage	-0.35%/K
Diameter	223±0.25mm(round chamfers)	Current	+0.048%/K
Thickness	175μm±20μm	Power	-0.38%/K
Front(-)	9*0.06±0.03mm wide bus bars,		
	128 finger grids (Silicon nitride)		
Back(+)	1.8mm ±0.4mm wide discontinuous soldering pads		
	170Aluminum fingers (Silicon nitride)		

Product Feature

High conversion efficiency up to 23.50%

Bifaciality≥75%

LID(Light Induced Degradation) ≤1.5%

High resistance of PID (Potential Induced Degrandation)

Power temperature coefficient≤-0.35%/℃

Weak light response (200w/m^2)≥95%

Lower CTM loss,better for the high efficiency module

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Quality Control

The accuracy of the efficiency test is controlled at ±0.1%

100% automatic inspection of IV/EL/Appearance

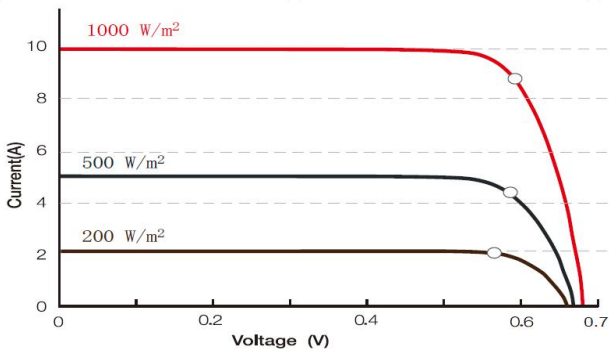
Calibration cell soure to fraunhofer ISE

Efficiency(%)	Pmpp(W)	Umpp(V)	Impp(A)	Uoc(V)	Isc(A)	FF(%)
23.50	6.44	0.604	10.666	0.693	11.251	82.63
23.40	6.42	0.602	10.656	0.692	11.242	82.46
23.30	6.39	0.600	10.646	0.691	11.236	82.27
23.20	6.36	0.598	10.636	0.690	11.229	82.09
23.10	6.33	0.596	10.626	0.689	11.221	81.91
23.00	6.31	0.594	10.615	0.688	11.212	81.74
22.90	6.28	0.592	10.605	0.687	11.199	81.60
22.80	6.25	0.590	10.594	0.686	11.196	81.38
22.70	6.22	0.588	10.584	0.685	11.182	81.25
22.60	6.20	0.587	10.555	0.684	11.161	81.16
22.50	6.17	0.585	10.544	0.683	11.145	81.03

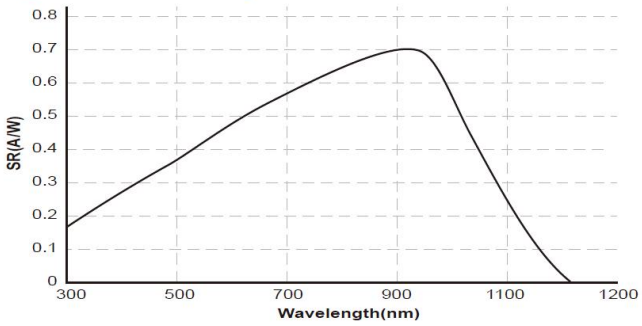
Standard test conitions:1000w/m^2,AM 1.5 , 25℃

Specifications and data are only for reference

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 11.2020 HD Solar

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