

# XXR M12-166

## 12BB Monocrystalline Silicon Solar Cell PERC

### PHYSICAL CHARACTERISTICS

Dimension 166\*166mm  
 Wafer Thickness 190 $\mu$ m  $\pm$  20 $\mu$ m  
 Front(-) Five 0.5mm wide bus bars (silver) with distance 18mm  
 alkaline texturized surface with dark blue silicon nitride AR coating  
 Back(+) 1.5mm wide silver/aluminum soldering pads, aluminum local back surface field.

### TYPICAL ELECTRICAL CHARACTERISTICS

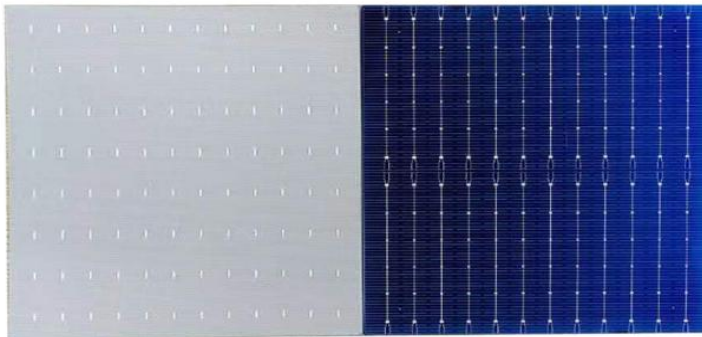
Efficiency Code	2150	2160	2180	2200	2220	2240	2260	2280	2300	2320	2340
Efficiency(%)	21.5	21.6	21.8	22.0	22.2	22.4	22.6	22.8	23.0	23.2	23.4
Pmax(W)	5.891	5.918	5.973	6.028	6.083	6.138	6.192	6.247	6.302	6.357	6.412
Vmp(V)	0.530	0.530	0.530	0.530	0.530	0.530	0.530	0.530	0.530	0.530	0.530
Imp(A)	11.115	11.167	11.270	11.374	11.477	11.580	11.684	11.787	11.891	11.994	12.097
Voc(V)	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625
Isc(A)	11.671	11.725	11.834	11.942	12.051	12.159	12.268	12.377	12.485	12.594	12.702

Data under standard testing conditions(STC): 1,000W/m<sup>2</sup>, AM1.5, 25°C, eff. tolerance : average + 0.3%/-0.1% absolute.

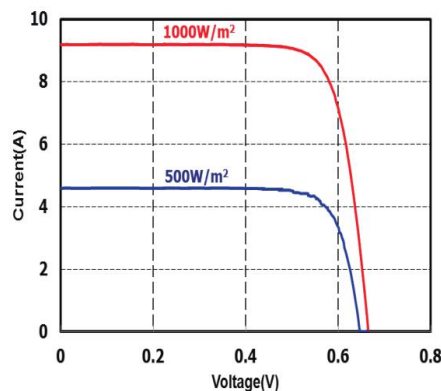
### TYPICAL TEMPERATURE COEFFICIENTS

Voltage -2.00 mV/K  
 Current +3.70 mA/K  
 Power -0.4%/K

### CONDUCTOR PATTERNS



### TYPICAL I-V CURVE (Cell Efficiency 22%)



### PACKAGE

Typical package for 1 pallet contains 24 cartons, 1 carton contains 1,600cells. The cells are sealed in cell box every 100pcs. Gross weight per unit carton shall be around 19.3kgs.



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