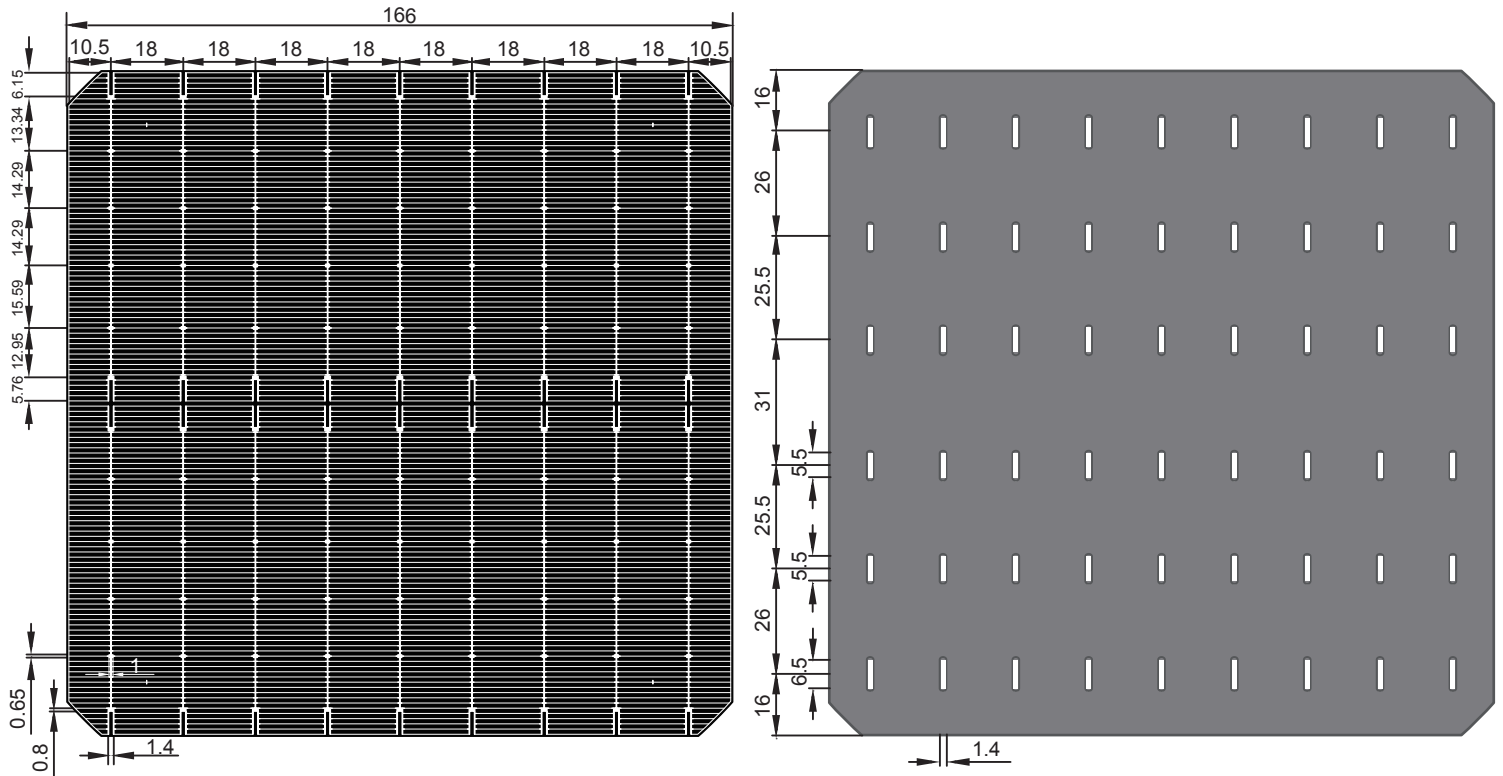




# Mono-crystalline Silicon 6" PERC Solar Cell

**P7F9H**



## Physical Characteristics

<b>Cell type</b>	<b>Mono-crystalline Silicon PERC Solar Cell</b>
<b>Dimension</b>	166 mm X 166 mm $\pm$ 0.25 mm 223 mm $\pm$ 0.25 mm (Diagonal length)
<b>Cell Thickness</b>	180 $\mu$ m $\pm$ 30 $\mu$ m
<b>Front side (-)</b>	Silicon nitride anti-reflective coating and 128 fingers Nine 0.1 $\pm$ 0.03 mm wide bus bars with distance 18.0 mm
<b>Back side (+)</b>	Full surface aluminum back surface field Nine 1.4 $\pm$ 0.1 mm discontinuous soldering pads

# P7F9H

## General Characteristics

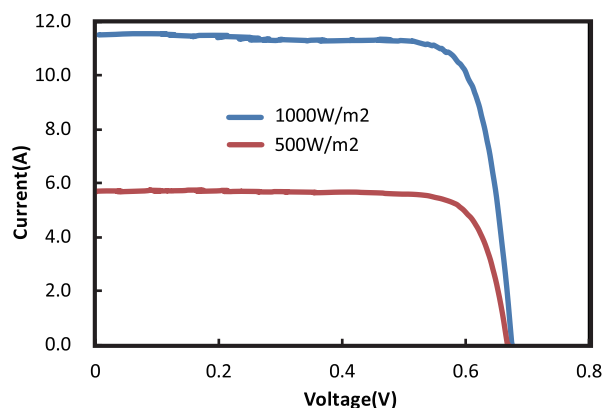
Eff(%)	Pmpp(Pmax)	Voc	Isc	Vmpp(Vmp)	Impp(Imp)
21.8	5.976	0.663	11.654	0.544	10.986
21.9	6.004	0.664	11.678	0.545	11.016
22.0	6.031	0.665	11.707	0.546	11.046
22.1	6.059	0.666	11.732	0.548	11.056
22.2	6.086	0.667	11.755	0.549	11.086
22.3	6.114	0.669	11.761	0.551	11.095
22.4	6.141	0.670	11.772	0.552	11.125
22.5	6.168	0.671	11.784	0.554	11.134
22.6	6.196	0.672	11.797	0.556	11.144
22.7	6.223	0.674	11.811	0.557	11.173
22.8	6.251	0.675	11.826	0.559	11.182
22.9	6.278	0.676	11.841	0.560	11.211
23.0	6.305	0.677	11.861	0.561	11.240

- Under standard test condition : 1000W / m<sup>2</sup> , AM 1.5 , 25°C ● Illustration : 22.4% → actual range 22.40%~22.49%
- Specification and data are for reference only and may change without prior notice.

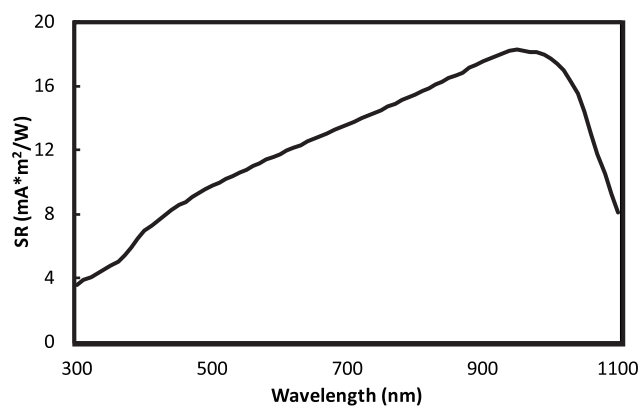
## Temperature Coefficient

Voc	Isc	FF	Power
-0.2662%/K	0.0624%/K	-0.1071%/K	-0.3086%/K

## Typical I-V Curve



## Spectral Response



## Electrical Properties

Parameter	Grade A
Cell efficiency / P <sub>mp</sub>	Measured cell efficiency (or P <sub>mp</sub> ) according to above mentioned bin criteria (AM 1.5, 1000 W/m <sup>2</sup> , 25 °C)
Shunt Resistivity	> 30 Ohm
Reverse dark current	I <sub>rev 2</sub> < 1.5A at -12V and 25°C