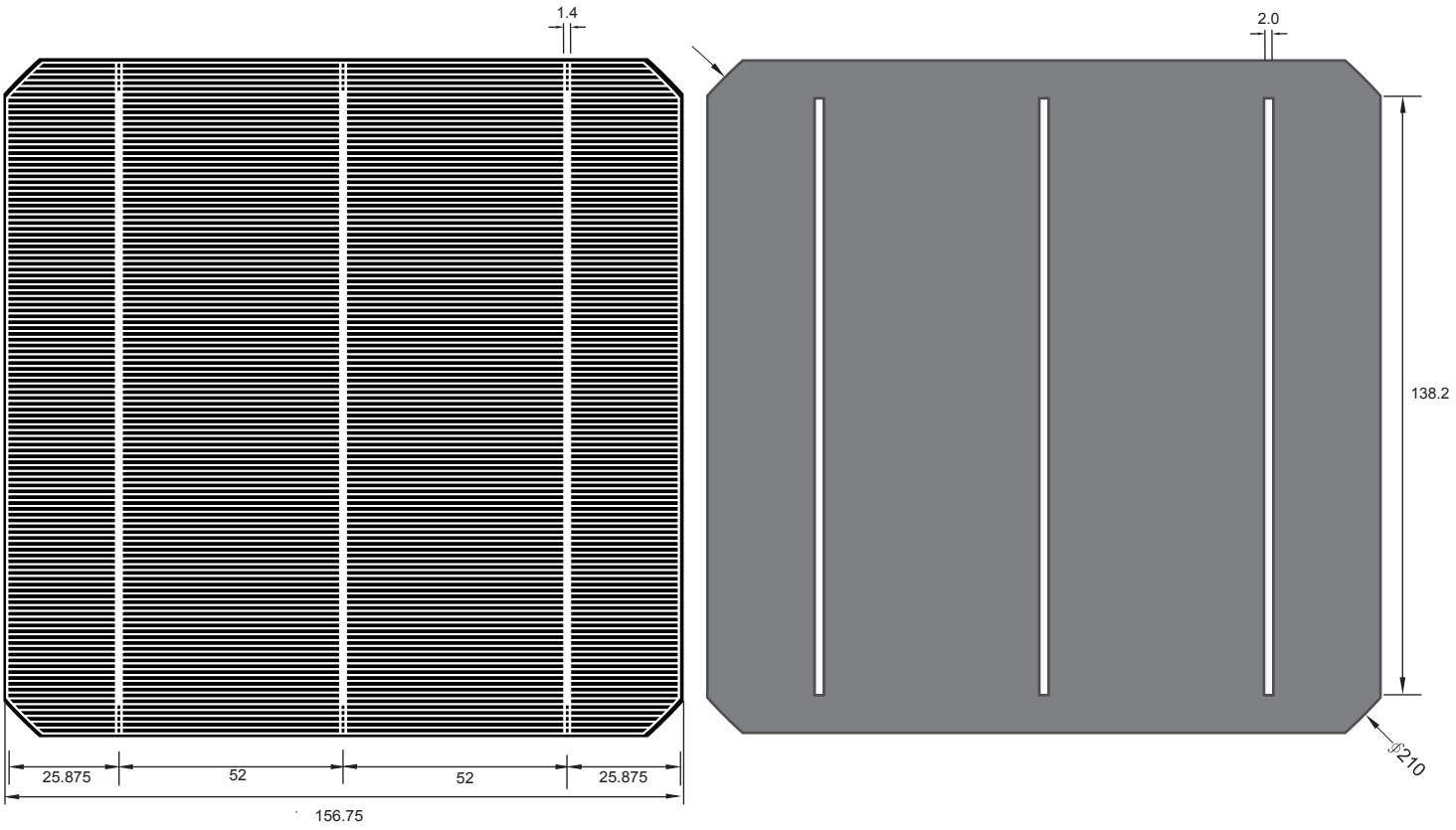
Mono-crystalline Silicon 6” PERC Solar Cell

P6E3B



Physical Characteristics

Cell type	Mono-crystalline Silicon PERC Solar Cell
Dimension	156.75 mm x 156.75 mm ± 0.25 mm 210 mm ± 0.25 mm (Diagonal length)
Cell Thickness	190 μm ± 30 μm
Front side (−)	Silicon nitride anti-reflection coating Three 1.4 ± 0.1 mm wide bus bars with distance 52 mm
Back side (+)	Full surface aluminum back surface field Three 2.0 ± 0.1 mm continuous soldering pads

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General Characteristics

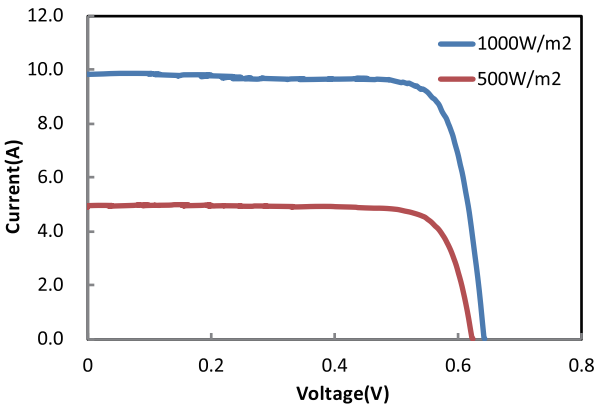
Eff(%)	Pmpp(Pmax)(W)	Voc(V)	Isc(A)	Vmpp(Vmp)(V)	Impp(Imp)(A)
21.2	5.18	0.660	9.76	0.559	9.27
21.3	5.20	0.661	9.78	0.560	9.29
21.4	5.23	0.662	9.80	0.561	9.33
21.5	5.25	0.663	9.82	0.562	9.35
21.6	5.28	0.664	9.84	0.563	9.38
21.7	5.30	0.665	9.85	0.564	9.39
21.8	5.33	0.666	9.87	0.565	9.43
21.9	5.35	0.667	9.89	0.566	9.45
22.0	5.37	0.668	9.91	0.567	9.47
22.1	5.40	0.669	9.93	0.568	9.50

- Under standard test condition : 1000W / m2 , AM 1.5 , 25°C
- Illustration : 21.6% → actual range 21.6%~21.69%
- Specification and data are for reference only and may change without prior notice.

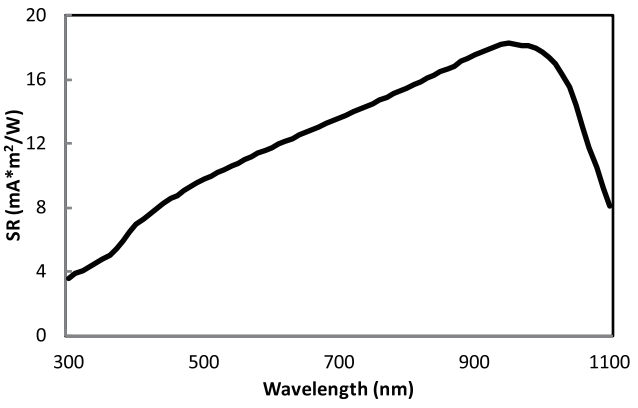
Temperature coefficient

Voc	Isc	FF	Power
-0.2771%/K	**0.0650%/K**	**-0.1123%/K**	**-0.3212%/K**

Typical I-V Curve



Spectral Response



Electrical Properties

Parameter	Grade A
Cell efficiency / P_{mpp}	Measured cell efficiency (or P_{mpp}) according to above mentioned bin criteria (AM 1.5, 1000 W/m², 25 °C)
Shunt Resistivity	> 30 Ohm
Reverse dark current	Irev 2 < 1.5A at -12V and 25°C

Tel : +886-3-4629988 / Fax : +886-3-4625511 / www.eepv.com.tw / No.156, Jhongyuan Rd., Jhongli Dist., Taoyuan City 32068, Taiwan