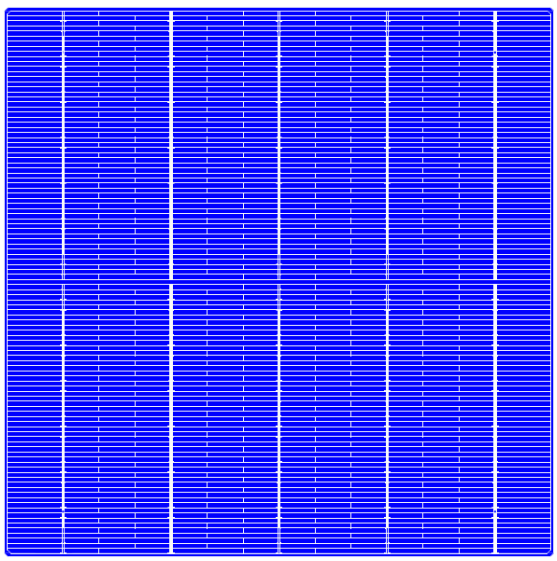
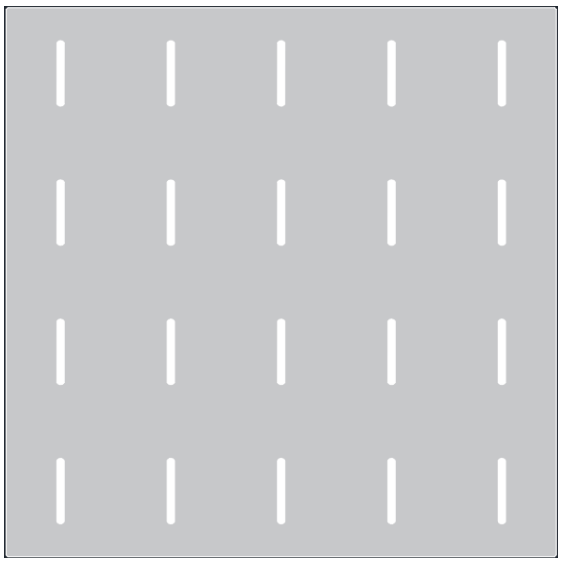
158KSMP-05

SQUARE MONO+PERC+SE+5BB

SQUARE MONO CRYSTALLINE SILICON SOLAR CELLS

Half-Cut/Full Pattern





PRODUCT DESCRIPTION

- The average efficiency is above 22.50%, high efficient mono cells with the same type of industrialization in the market.
- 5BB design gets higher FF, lower Rs, and higher efficiency.
- Large size wafer, the effective illumination area is larger, and the power of the modules is significantly increased.
- SE process reduces the surface carrier recombination and enhances the shortwave spectral response of the solar cell.
- Increasing the absorbing ability under low- intensity irradiation by PERC process, improving the efficiency of cells under different environments.
- CIR process decreases the LID/LeTID,makes sure the stable power output.
- Hot-spot inspection strictly, avoids loss of efficiency and reliability.
- AOI makes sure the better color uniformity of cells and modules.

TECHNICAL DATA

MECHANICAL DIMENSION

Size	158.75mm×158.75mm±0.25mm
Thickness	180μm±18μm
Front (-)	Front side busbar width 0.7±0.1mm
Rear (+)	Rear side busbar width 1.6±0.3mm

TEMPERATURE COEFFICIENT

TkVoltage	-0.37%/K
TkCurrent	+0.07%/K
TkPower	-0.36%/K

LOW-INTENSITY IRRADIATION

Insol (W/m2)	Isc/Isc0	Voc/Voc0	Pmpp/Pmpp0
1000	1.0	1.00	1.0
800	0.8	0.99	0.8
600	0.6	0.98	0.6
400	0.4	0.96	0.4
200	0.2	0.93	0.2

ELECTRICAL PROPERTY

Eta (%)	Pmpp (W)	Umpp (V)	Impp (A)	Voc (V)	Isc (A)	FF (%)
22.6	5.70	0.583	9.769	0.6830	10.229	81.52
22.5	5.67	0.582	9.743	0.6820	10.213	81.41
22.4	5.65	0.581	9.716	0.6810	10.197	81.29
22.3	5.62	0.580	9.690	0.6800	10.181	81.18
22.2	5.59	0.579	9.663	0.6790	10.165	81.06
22.1	5.57	0.578	9.636	0.6780	10.148	80.95
22.0	5.54	0.577	9.609	0.6770	10.129	80.85

Standard test condition: 1000W/m^2,AM1.5,25℃.
The right to interpret the above dynamic changes of technical parameters belongs to XF SOLAR Co.,Ltd.

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