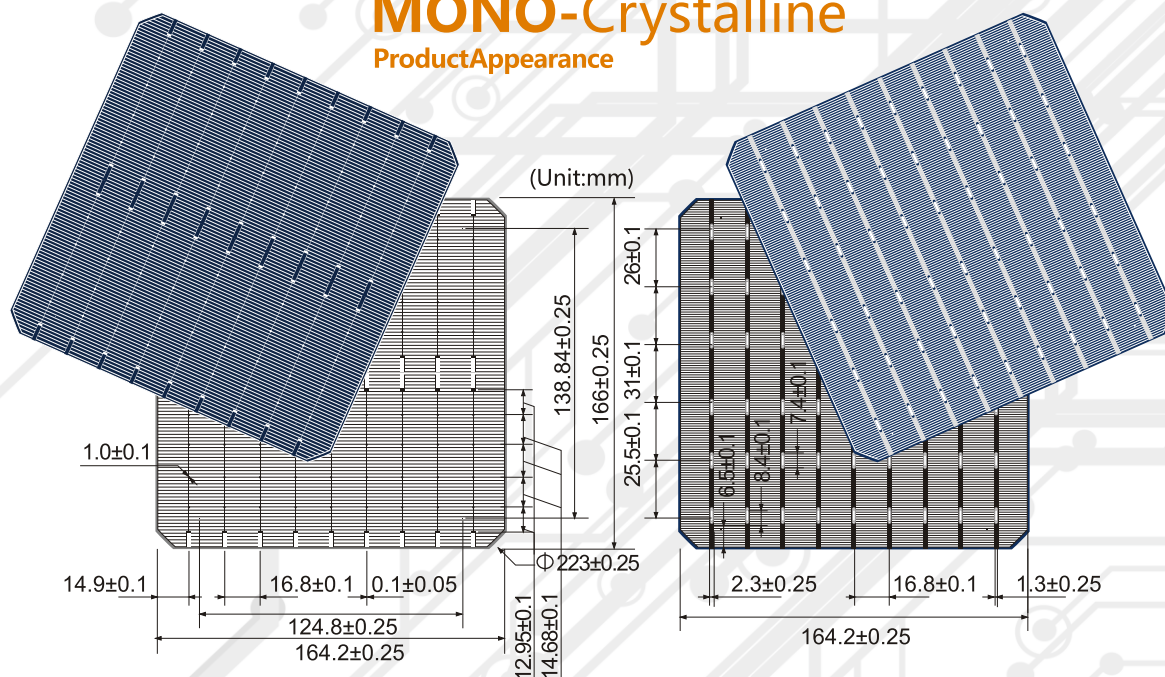


PERC BP SE Solar Cell

SGGS166M-9BB

MONO-Crystalline

Product Appearance



Technical Data and Design

Dimension	166mm × 166mm ± 0.25mm
Thickness	190 ± 30 μm
Front	9 busbars (silver), width 0.1 ± 0.03mm, 124 finger grids, Blue Anti-reflective coating (silicon nitride)
Back(+)	width of back electrode (silver) 1.3 ± 0.25mm, finger grips (aluminum) dotted laser design

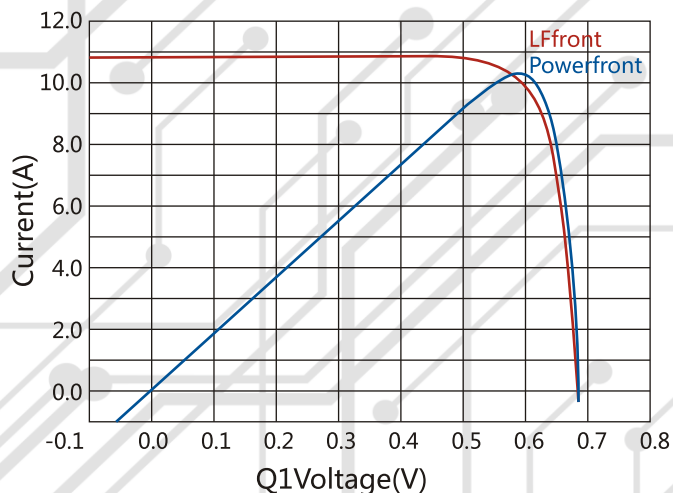
Tk Voltage W - 0.36%/K

Tk Current W + 0.07%/K

Tk Power W - 0.38%/K

Rsh ≥ 35 Ω nIrev2 ≤ 0.8A

IV Curve



Light Intensity Dependence

Intensity (W/m ²)	Voc	Isc
1000	1.000	1.000
900	0.996	0.903
800	0.991	0.803
600	0.988	0.602
400	0.962	0.403

Take the Voc(Isc) at 1000 W/m² as the standard, test the range of Voc(Isc) decrease with light intensity.

Solder Ability

Peel strength Minimum ≥ 1.4 N/mm

Results may be different due to different ribbons, soldering methods and parameters.

STC (Standard Testing Conditions) W 1000 W/m² nA M1.5 n25 Technical Parameters
Above mentioned subject to technical changes and tests. G Star reserves the right to final interpretation.

Electrical Performance Parameters

Efficiency C%(	Pmpp CW(	Vmpp CV(	Imp CA(	Voc CV(	Isc CA(	FF C%(
22.9	6.28	0.5933	10.582	0.6874	11.113	82.18
22.8	6.25	0.5916	10.566	0.6859	11.100	82.10
22.7	6.22	0.5905	10.540	0.6837	11.105	81.97
22.6	6.20	0.5887	10.525	0.6822	11.090	81.89
22.5	6.17	0.5873	10.503	0.6811	11.082	81.73
22.4	6.14	0.5856	10.486	0.6807	11.075	81.46
22.3	6.11	0.5835	10.477	0.6790	11.060	81.41
22.2	6.09	0.5817	10.462	0.6780	11.046	81.26
22.1	6.06	0.5799	10.448	0.6777	11.039	80.98
22.0	6.03	0.5781	10.433	0.6774	11.021	80.81
21.9	6.00	0.5760	10.424	0.6748	11.014	80.79
21.8	5.98	0.5742	10.409	0.6743	10.996	80.60
21.7	5.95	0.5720	10.401	0.6729	10.990	80.45
21.6	5.92	0.5701	10.386	0.6719	10.974	80.30
21.5	5.89	0.5684	10.371	0.6713	10.958	80.12

Back Electrical Performance Parameters

Efficiency C%(	Pmpp CW(	Vmpp CV(	Imp CA(	Voc CV(	Isc CA(	FF C%(
>16	4.44	0.5884	7.549	0.6788	8.019	\
15.5-16	4.30	0.5782	7.492	0.6688	7.940	\
15-15.5	4.17	0.5721	7.335	0.6650	7.735	\
<15	4.06	0.5657	7.173	0.6592	7.554	\



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