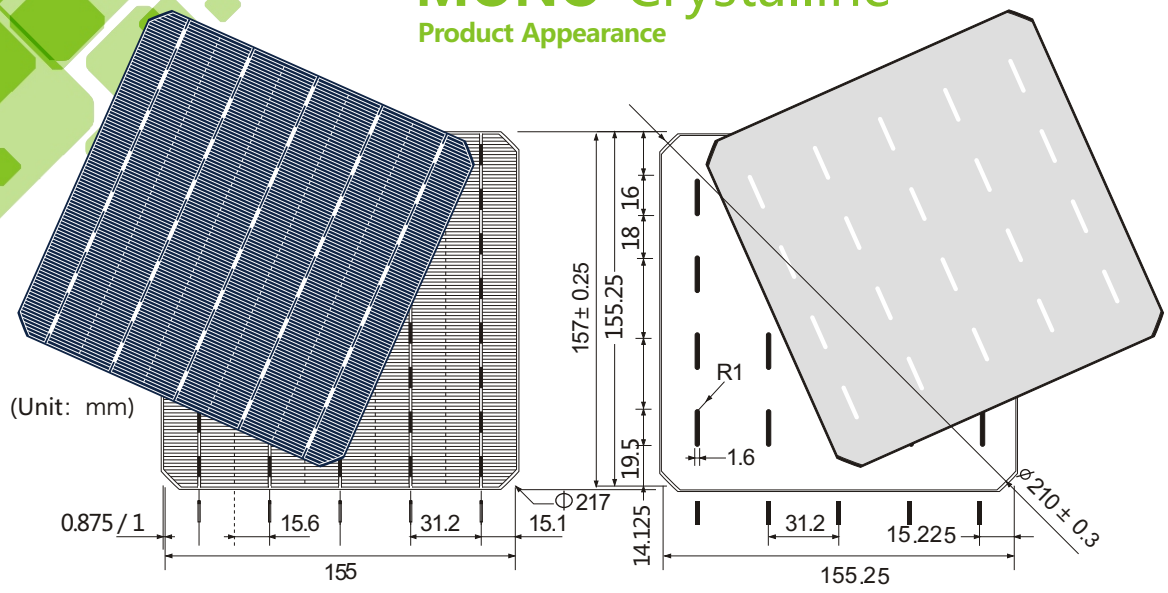
PERC SE Solar Cell

LHC157M-5BB

MONO-Crystalline

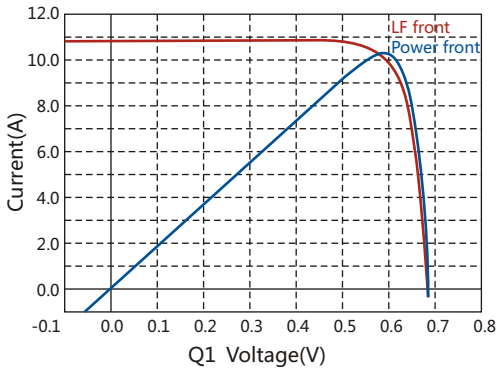
Product Appearance



Technical Data and Design

Dimension	157mm ×157mm±0.25mm
Thickness	180±18μm
Front	5 busbars(silver), width 0.8±0.03mm, 106 finger grids, Blue anti-reflecting coating(silicon nitride)
Back(+)	width of back electrode(silver) 1.6±0.25mm, Back surface field (aluminum), dotted laser design

IV Curve



Solder Ability

Peel strength Minimum	≥1.4N/mm

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

TkVoltage : -0.36 %/K	
TkCurrent : +0.07%/K	
TkPower : -0.38%/K	
Rsh≥35Ω , Irev2≤0.8A	

Light Intensity Dependence

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

Electrical Performance Parameters

Efficiency (%)	Pmpp (W)	Vmpp (V)	Impp (A)	Voc (V)	Isc (A)	FF (%)
22.20	5.42	0.587	9.268	0.685	9.766	80.73
22.10	5.40	0.585	9.260	0.684	9.759	80.70
22.00	5.38	0.584	9.252	0.683	9.752	80.66
21.90	5.35	0.582	9.243	0.682	9.745	80.61
21.80	5.33	0.580	9.230	0.680	9.734	80.55
21.70	5.30	0.579	9.212	0.679	9.725	80.50
21.60	5.28	0.577	9.191	0.678	9.716	80.46
21.50	5.25	0.570	9.216	0.669	9.764	80.42
21.40	5.23	0.569	9.189	0.668	9.677	80.36
21.30	5.20	0.568	9.162	0.667	9.715	80.31
21.20	5.18	0.567	9.135	0.666	9.690	80.27
21.10	5.16	0.566	9.108	0.665	9.663	80.22
21.00	5.13	0.565	9.081	0.664	9.640	80.16
20.90	5.11	0.564	9.054	0.663	9.612	80.12
20.80	5.08	0.563	9.026	0.662	9.591	80.04
20.70	5.06	0.562	8.999	0.661	9.568	79.96
20.60	5.03	0.561	8.971	0.660	9.544	79.90

STC (Standard Testing Conditions) : 1000W/m² , AM1.5 , 25°C

Technical parameters above-mentioned subjects to technical changes and tests.

LH Energy reserves the right of final interpretation.

LIGHT & HOPE

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