

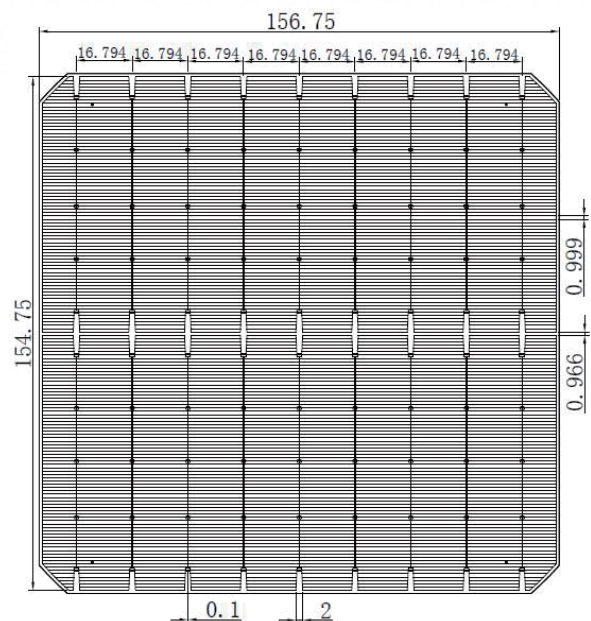
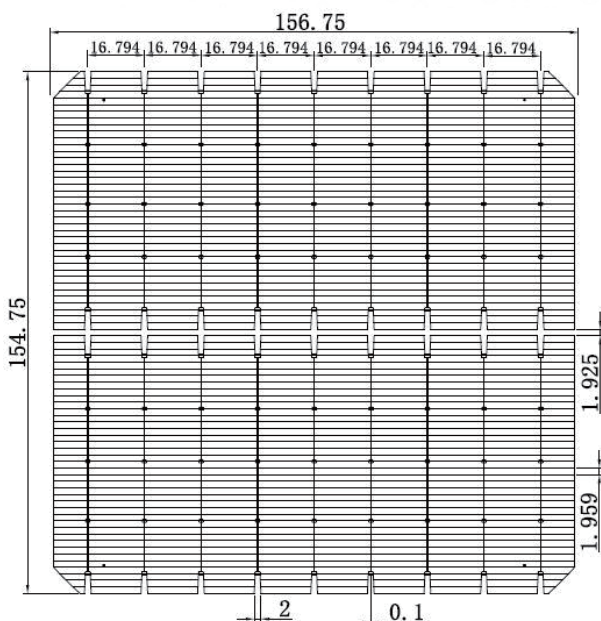
Natural Gift of Sunlight

TECHNICAL DATA AND DESIGN

- Dimension**
 156.75mm*156.75mm±0.25mm
- Thickness**
 Before Printing:125–155μm ,
 After Printing:140–170μm
- Bulk material**
 N–type Monocrystalline silicon
- Back(+)**
 9*0.1mm BusBar(silver), 156 Fingers(silver), Blue layer (Tco)
- Front**
 9*0.1mm BusBar(silver), 80 Fingers(silver), Blue layer (Tco)

Product Appearance

Silicon Heterojunction (SHJ) cell solar cell is fabricated by low temperature process and less fabrication process. It has the advantages of high efficiency, high stability, no LID, no PID, temperature coefficient and so on. It is also a very good bifacial solar cell, and the bifaciability is higher than 90%.

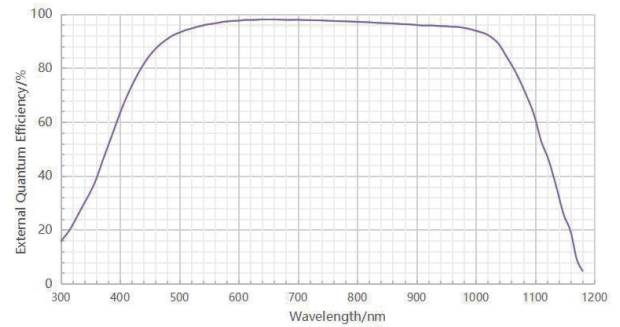


TEMPERATURE COEFFICIENT



TkVoc (%/K)	-0.27
Tklsc (%/K)	+0.055
TkP _{MAX} (%/K)	-0.26

SPECTRAL RESPONSE (EXTERNAL QUANTUM EFFICIENCY)



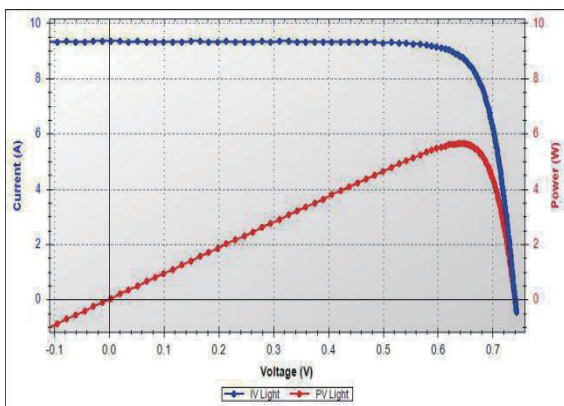
IRRADIATION DEPENDENCE CHARACTERISTICS



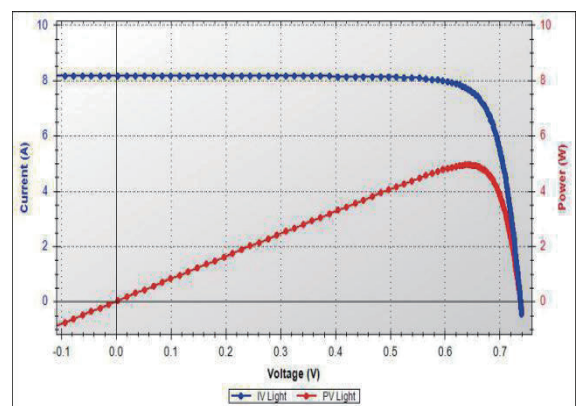
Intensity(W/m ²)	Voc	Isc
1000	1.00	1.0
900	0.99	0.9
800	0.99	0.8
600	0.98	0.6
400	0.96	0.4

Ratio of Voc(Isc) at reduced intensity to Voc(Isc)at 1000W/m².

IV CURVE (Front side)



IV CURVE (Rear side)



CELL PERFORMANCE (Front side)



Efficiency Code	Efficiency (%)	Pmpp (W)	Vmpp (V)	Impp (A)	Voc (V)	Isc (A)	FF (%)
MS-156.75M-243	24.30	5.94	0.666	8.911	0.747	9.317	85.33
MS-156.75M-242	24.20	5.91	0.664	8.901	0.746	9.310	85.09
MS-156.75M-241	24.10	5.89	0.663	8.879	0.746	9.290	84.95
MS-156.75M-240	24.00	5.86	0.663	8.844	0.746	9.281	84.71
MS-156.75M-239	23.90	5.84	0.662	8.817	0.745	9.276	84.48
MS-156.75M-238	23.80	5.81	0.661	8.801	0.745	9.271	83.23
MS-156.75M-237	23.70	5.79	0.659	8.785	0.744	9.269	83.97
MS-156.75M-236	23.60	5.77	0.658	8.759	0.744	9.255	83.76
MS-156.75M-235	23.50	5.74	0.657	8.740	0.744	9.251	83.42
MS-156.75M-234	23.40	5.72	0.656	8.711	0.743	9.243	83.26

*
STC (Standard Testing Conditions):1000W/m², AM1.5,25°C.
Technical parameters above-mentioned subjects to technical changes and tests.

CELL PERFORMANCE (Front side)



Efficiency Code	Efficiency (%)	Pmpp (W)	Vmpp (V)	Impp (A)	Voc (V)	Isc (A)	FF (%)
MS-156.75M-215	21.50	5.24	0.658	7.970	0.740	8.362	84.76
MS-156.75M-213	21.30	5.20	0.655	7.950	0.739	8.337	84.50
MS-156.75M-210	21.00	5.14	0.654	7.850	0.737	8.309	83.80

*
STC (Standard Testing Conditions):1000W/m², AM1.5,25°C.
Technical parameters above-mentioned subjects to technical changes and tests.