

MONOCRYSTALLINE SOLAR CELL TW059

TECHNICAL DATA AND DESIGN

Dimension	156.75mm*156.75mm±0.25mm
Thickness	200±30 μm
Front	5 bus bars (silver), width 0.7±0.1mm, 106 fingergrids, Blue anti-reflecting coating (silicon nitride)
Back(+)	wide soldering pads (silver)1.8±0.1 mm, Back surface field (aluminum)

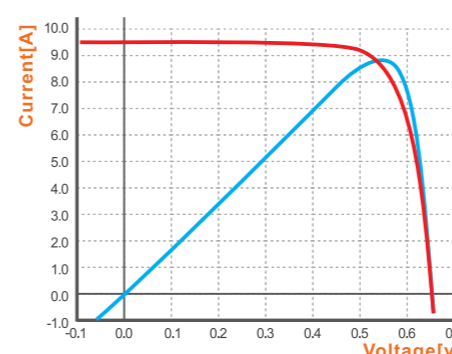
TEMPERATURE COEFFICIENTS

TkVoltage (%/K)	-0.36
TkCurrent (%/K)	+0.07
TkPower (%/K)	-0.38
Rsh≥30Ω, Irev2≤1.0A	

ELECTRICAL PERFORMANCE

No.	Efficiency (%)	Pmpp (W)	Umpp (V)	Impp (A)	Uoc (V)	Isc (A)	FF(%)
01	20.50%	5.01	0.558	8.978	0.649	9.500	81.30
02	20.40%	4.98	0.557	8.940	0.649	9.440	81.28
03	20.30%	4.96	0.556	8.920	0.648	9.420	81.26
04	20.20%	4.94	0.555	8.892	0.648	9.379	81.21
05	20.10%	4.91	0.554	8.864	0.647	9.357	81.12
06	20.00%	4.89	0.553	8.836	0.646	9.332	81.05
07	19.90%	4.86	0.551	8.824	0.644	9.320	81.00
08	19.80%	4.84	0.550	8.796	0.643	9.295	80.94
09	19.70%	4.81	0.548	8.783	0.643	9.264	80.85
10	19.60%	4.79	0.546	8.770	0.641	9.241	80.82

IV CURVE



LIGHT INTENSITY DEPENDENCE

Intensity (W/m ²)	Uoc	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

SOLDER ABILITY

Peel Strength Minimum >1.4N/mm

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

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

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

Technical parameters above-mentioned subjects to technical changes and tests. Tongwei Solar reserves the right of final interpretation.

