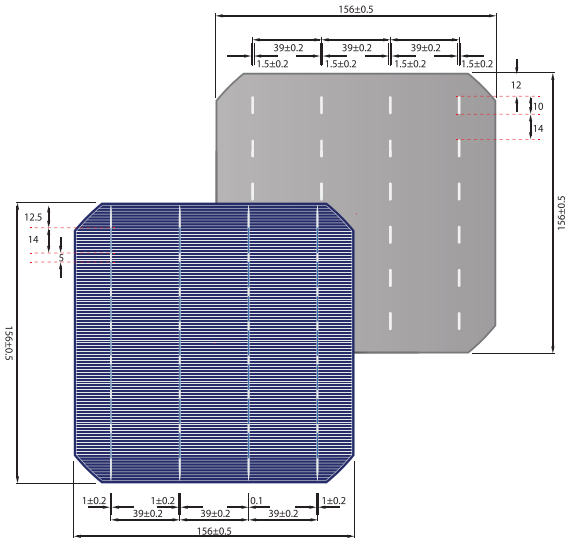
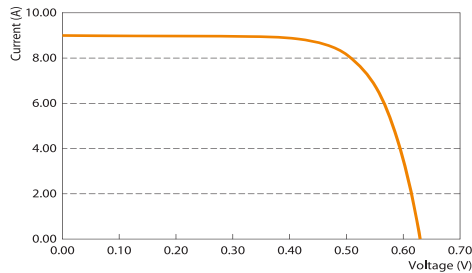


# Thaisun Mono-Crystalline Silicon Solar Cells

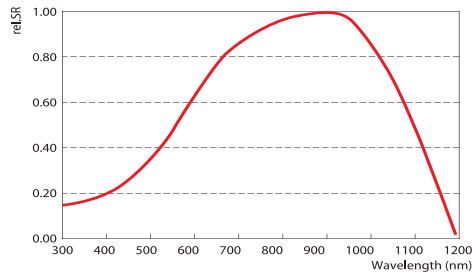
## TSG-156M



### IV Curve



### Spectral Response



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### Mechanical Characteristics

Product	Mono-crystalline Silicon Solar Cell
Dimension	156x156mm±0.5mm
Thickness	180µm±20µm
Front (cathode)	1mm bus bare(silver), blue anti-reflecting coating (silicon nitride)
Back (anode)	1.5mm wide soldering pads(silver), back surface field (aluminium)

### Temperature Coefficients

TkCurrent	+0.03%/°C
TkVoltage	-0.32%/°C
TkPower	-0.45%/°C

### Electrical Characteristics

Efficiency (%)	Pmpp (Wp)	Vmpp (V)	Ipp (A)	Voc (V)	Isc (A)	FF (%)
19.80%	4.84	0.548	8.828	0.643	9.26	81.25%
19.60%	4.79	0.545	8.787	0.641	9.24	80.85%
19.40%	4.74	0.543	8.729	0.640	9.18	80.67%
19.20%	4.69	0.541	8.671	0.638	9.13	80.53%
19.00%	4.64	0.539	8.612	0.636	9.09	80.30%

All data at STC: Irradiance 1000W/m<sup>2</sup>, Cell temperature 25°C, AM1.5G. Pmpp ±1.5%, Efficiency ±0.2% abs.

### Intensity Dependence

Intensity(W/m <sup>2</sup> )	Isc*(mA)	Voc*(mV)
1000	1.00	1.000
900	0.90	0.989
500	0.50	0.963
300	0.30	0.939
200	0.20	0.920

\* Ratio of Voc(Isc) at reduced intensity to Voc(Isc) at 1000 W/m<sup>2</sup>.

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※ Specifications included in this datasheet are subject to change without notice.