

# Unitech Mono-Crystalline Silicon Solar Cell

## ◆ Physical Characteristics

**Dimension** 156 mm x 156 mm  $\pm$  0.5 mm    **Dia** : 195  $\pm$  1mm    **Thickness** 200  $\mu$ m  $\pm$  20  $\mu$ m

**Front side (-)** Two 1.8 mm wide bus bars(silver) with distance 75 mm, acid textured surface with blue silicon nitride anti-reflection coating.

**Back side (+)** 3.5 mm wide silver/aluminum continuous bus bars, aluminum back surface field.

This mono-crystalline solar cell is a p-type cell (boron doped).

## ◆ Typical Electrical Characteristics

P/N	Efficiency(%)	Minimum Power(Wp)	Imp(A)	Vmp(V)	Isc(A)	Voc(V)
UTS-156M1	15.00-15.25	3.55	7.12	0.501	7.85	0.620
UTS-156M2	15.25-15.50	3.61	7.22	0.504	7.90	0.621
UTS-156M3	15.50-15.75	3.67	7.29	0.505	7.95	0.623
UTS-156M4	15.75-16.00	3.73	7.36	0.508	8.01	0.624
UTS-156H1	16.00-16.25	3.79	7.42	0.515	8.04	0.626
UTS-156H2	16.25-16.50	3.85	7.48	0.519	8.06	0.627
UTS-156H3	16.50-16.75	3.91	7.51	0.524	8.07	0.629
UTS-156H4	16.75-17.00	3.97	7.54	0.529	8.08	0.632
UTS-156SH1	17.00-17.25	4.03	7.59	0.533	8.11	0.633
UTS-156SH2	17.25-17.50	4.08	7.65	0.535	8.15	0.636

Note : Measurement under standard testing conditions (STC): 1,000W/m<sup>2</sup>, AM1.5G, 25°C ; Efficiency:  $\pm$  0.25% abs.

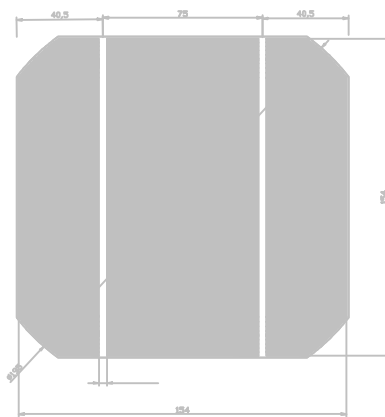
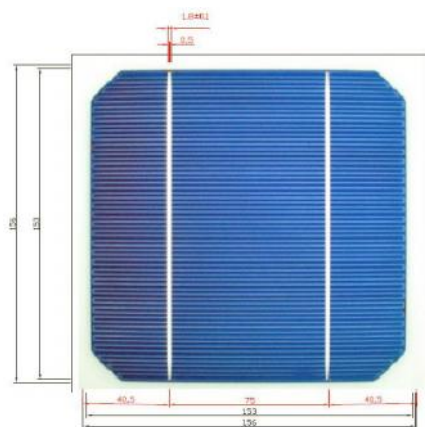
## ◆ Typical Temperature Coefficients

The coefficient of current (Alpha) is **+3.20 mA/K**

The coefficient of voltage (Beta) is **- 2.03 mV/K**

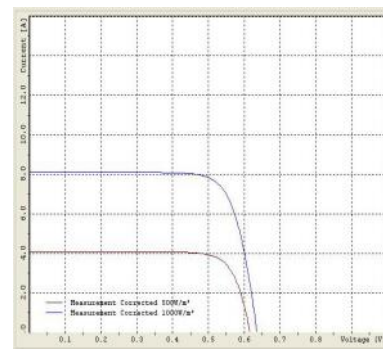
The coefficient of power (Gamma) is **- 0.39 %/K**

## ◆ Conductor Patterns



## I-V Curve

Cell Efficiency = 16.8 %



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