

Unitech Multi-Crystalline Silicon Solar Cell

◆ Physical Characteristics

- Dimension** 156 mm x 156 mm \pm 0.5 mm **Thickness** 200 μ m \pm 20 μ 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 multi-crystalline solar cell is a p-type cell (boron doped).

◆ Typical Electrical Characteristics

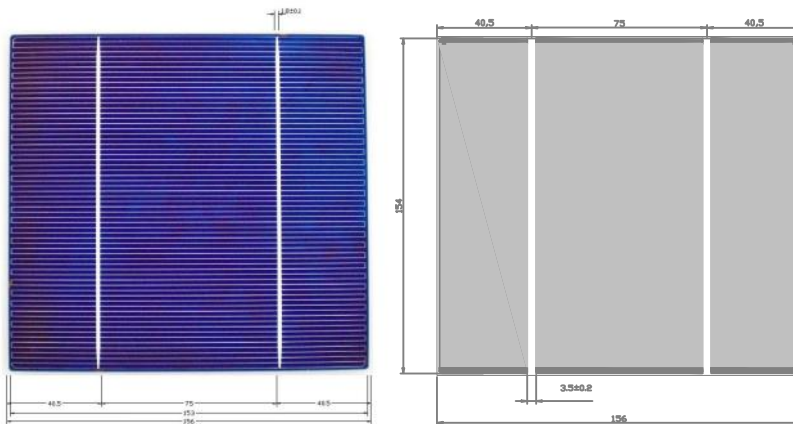
P/N	Efficiency(%)	Minimum Power(Wp)	I _{mp} (A)	V _{mp} (V)	I _{sc} (A)	V _{oc} (V)
UTM-156L3	14.50-14.75	3.53	7.15	0.498	7.64	0.604
UTM-156L4	14.75-15.00	3.59	7.25	0.500	7.74	0.607
UTM-156H1	15.00-15.25	3.65	7.33	0.503	7.83	0.611
UTM-156H2	15.25-15.50	3.72	7.43	0.504	7.91	0.614
UTM-156H3	15.50-15.75	3.78	7.49	0.508	7.97	0.617
UTM-156H4	15.75-16.00	3.84	7.54	0.512	8.03	0.621
UTM-156SH1	16.00-16.25	3.90	7.58	0.517	8.09	0.624
UTM-156SH2	16.25-16.50	3.96	7.63	0.521	8.14	0.627
UTM-156SH3	16.50-16.75	4.02	7.68	0.525	8.19	0.629

Note : Measurement under standard testing conditions (STC): 1,000W/m², AM1.5G, 25°C ; Efficiency: \pm 0.25% abs.

◆ Typical Temperature Coefficients

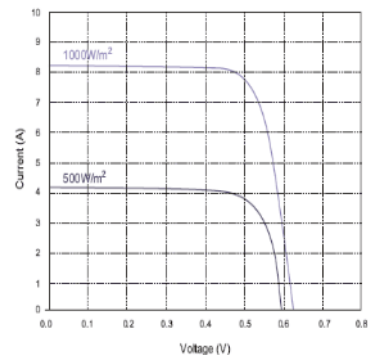
- The coefficient of current (Alpha) is +2.47 mA/K
 The coefficient of voltage (Beta) is - 2.02 mV/K
 The coefficient of power (Gamma) is - 0.39 %/K

◆ Conductor Patterns



I-V Curve

Cell Efficiency = 15.8 %



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