

Model: TM654b

Physical Characteristics

Dimension: 156.75 mm x 156.75 mm \pm 0.25 mm
 Thickness: 180 μ m \pm 30 μ m

Front (-): 5 x 0.8 mm wide bus bars (silver) with distance 31.2 mm, acid texturized surface with blue silicon nitride AR coating.

Back (+): 1.4 mm wide silver / aluminum soldering pads, aluminum back surface field.

Temperature Coefficients

Current Temperature Coefficient	α (ISC)	0.04 %/°c
Voltage Temperature Coefficient	β (VOC)	-0.31 %/°c
Power Temperature Coefficient	γ (Pmax)	-0.41 %/°c

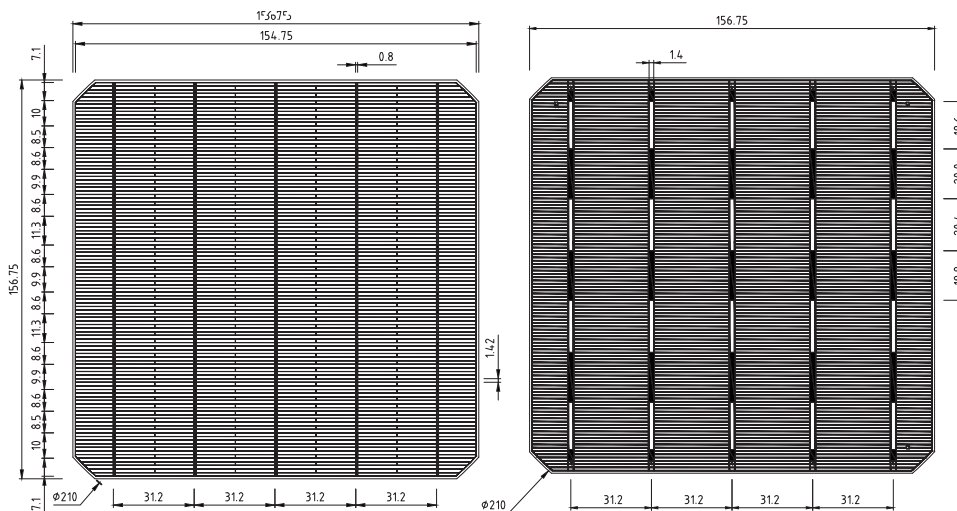
* Standard test condition: AM1.5, 1000W/m², 25°C

Electrical Characteristics

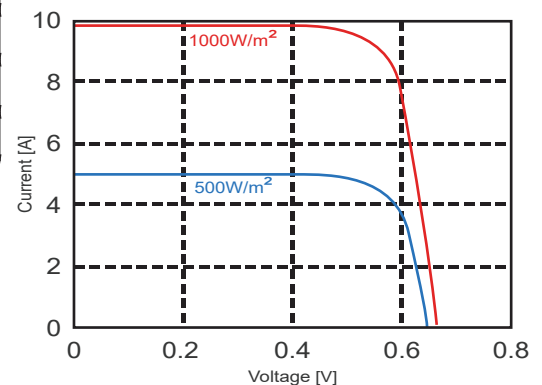
Efficiency Code		2080	2090	2100	2110	2120	2130	2140	2150	2160	2170	2180	2190	2200	2210
Efficiency	Eff(%)	20.80	20.90	21.00	21.10	21.20	21.30	21.40	21.50	21.60	21.70	21.80	21.90	22.00	22.10
Power	Pmax (W)	5.082	5.106	5.131	5.155	5.180	5.200	5.230	5.250	5.280	5.300	5.330	5.350	5.380	5.400
Max. Power Current	Imp (A)	9.217	9.244	9.220	9.220	9.250	9.270	9.290	9.290	9.310	9.330	9.350	9.370	9.390	9.400
Short Circuit Current	Isc (A)	9.697	9.722	9.730	9.730	9.760	9.770	9.790	9.790	9.810	9.820	9.840	9.850	9.860	9.870
Max Power Voltage	Vmp (V)	0.551	0.552	0.553	0.556	0.560	0.561	0.563	0.565	0.567	0.568	0.570	0.571	0.573	0.575
Open Circuit Voltage	Voc (V)	0.664	0.655	0.656	0.656	0.658	0.659	0.661	0.663	0.665	0.666	0.667	0.668	0.670	0.671

*Data under standard testing conditions (STC): 1000w/m², AM1.5, 25°C, efficiency tolerance: average +0.3%/-0.1% absolute.

Conductor Patterns (unit: mm)



Typical IV Curve



Package: Typical package for one carton contains 1,200 cells. The cells are sealed in cell box every 100 PCs.

* The datasheet is for informational purposes only and subject to change without prior notice.

