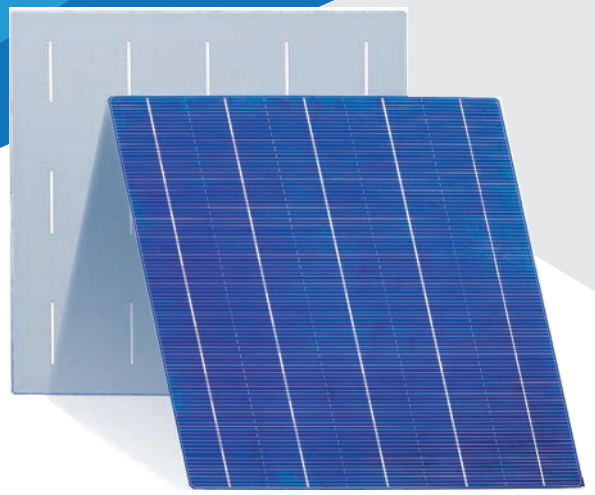


Polycrystalline Cells

PERC Tech



Model: NBP56FP

Dimension: 156.75 mm x 156.75 mm ± 0.25 mm
 Thickness: 200µm ± 20µm

Front (-): 5 x 0.6 mm wide bus bars (silver) with distance 31.2 mm, acid texturized surface with blue silicon nitride AR coating.

Back (+): 1.6 mm wide silver / aluminum soldering pads, aluminum back surface field.

Temperature Coefficients

Current Temperature Coefficient	α (Isc)	0.046 %/°C
Voltage Temperature Coefficient	β (Voc)	-0.30 %/°C
Power Temperature Coefficient	γ (Pmax)	-0.37 %/°C

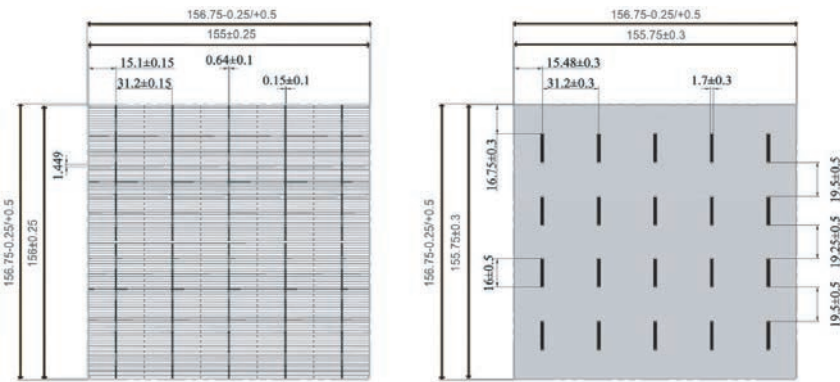
*Standard test condition; AM 1.5, 1000W/m², 25°C

Electrical Characteristics

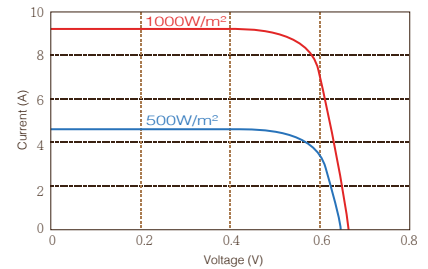
Efficiency	Eff (%)	18.7~18.8	18.8~18.9	18.9~19.0	19.0~19.1	19.1~19.2	19.2~19.3	19.3~19.4	19.4~19.5	19.5~19.6	19.6~19.7	19.7~19.8	19.8~19.9
Power	P _{max} (W)	4.61	4.63	4.66	4.68	4.7	4.73	4.75	4.78	4.8	4.83	4.85	4.88
Max. Power Current	I _{mp} (A)	8.57	8.6	8.62	8.64	8.66	8.68	8.7	8.72	8.74	8.76	8.78	8.8
Short Circuit Current	I _{sc} (A)	9.06	9.09	9.11	9.13	9.15	9.18	9.21	9.23	9.25	9.26	9.27	9.28
Max. Power Voltage	V _{mp} (V)	0.5374	0.5387	0.5402	0.5415	0.5428	0.544	0.5447	0.546	0.5472	0.5487	0.5499	0.5512
Open Circuit Voltage	V _{oc} (V)	0.632	0.634	0.635	0.636	0.637	0.638	0.639	0.64	0.642	0.643	0.645	0.646

*Data under standard testing conditions (STC): 1000W/m², AM1.5, 25°C, efficiency tolerance; average +3%/-0.1% absolute.

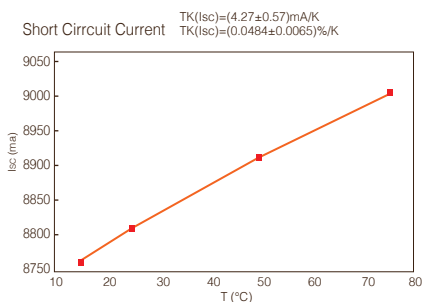
Conductor Patterns (unit: mm)



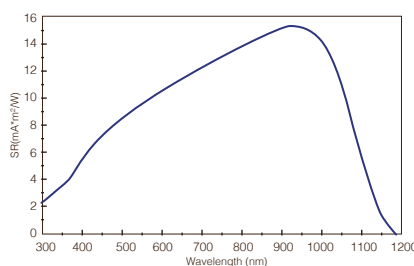
Typical IV Curve



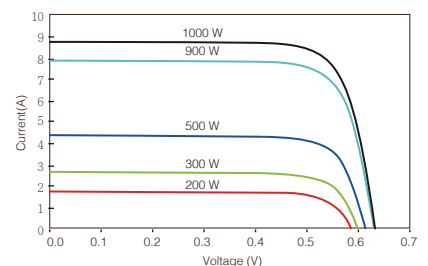
Calculated Temperature Coefficients



Typical Spectral Response



Typical Current-Voltage 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.