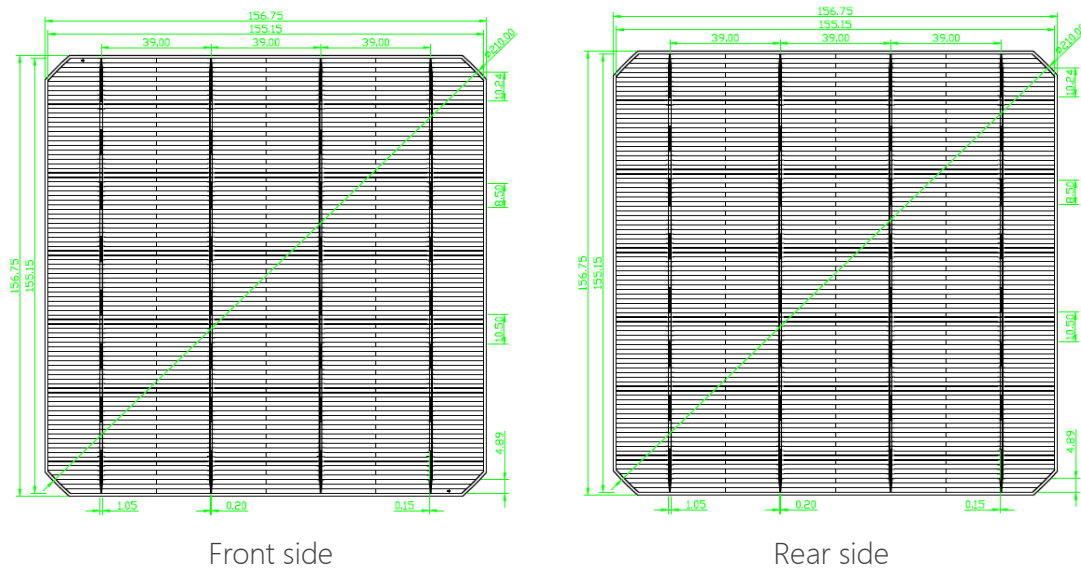


TPM-156.75NBi 4BB

N-Type Bifacial MONOCSTALLINE SILICON SOLAR CELL



MECHANICAL DATA AND DESIGN

Dimension : 156.75mmx156.75mm±0.25mm , Φ210mm±0.25mm ;

Cell Thickness : 190μm±20μm

Front side : 1.0mm wide bus bars, Silicon nitride anti-reflection coating

Back side : 1.0mm wide bus bars, Silicon nitride coating

PRODUCT CHARACTERISTIC

- High conversion efficiency with high reliability
- No light-induced degradation
- Uniform cell performance with stable process control
- Both sides can generate electricity
- Low mismatch of cell performance during encapsulation
- Excellent power generation performance under low irradiation
- Low hot spot effect

QUALITY CONTROL

- Proper inspection through incoming production, outgoing and packaging
- Efficiency tested within ± 0.1% accuracy
- 100% checked for reverse current and visual appearance
- Reference cell calibrated from Fraunhofer

ELECTRICAL PERFORMANCE

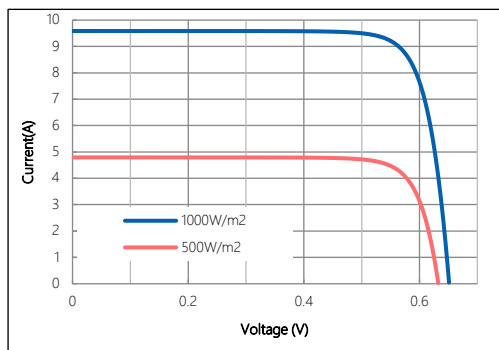
Eff(%)	Pmpp(W)	Vmpp(V)	Impp(A)	Uoc(V)	Isc(A)	FF(%)
21.5	5.25	0.5705	9.208	0.6594	9.728	81.89
21.4	5.23	0.5689	9.190	0.6575	9.713	81.87
21.3	5.20	0.5676	9.169	0.6559	9.692	81.86
21.2	5.18	0.5652	9.144	0.6545	9.667	81.86
21.1	5.15	0.5647	9.112	0.6538	9.633	81.85
21.0	5.13	0.5656	9.071	0.6527	9.606	81.83
20.9	5.11	0.5642	9.051	0.6521	9.599	81.58
20.8	5.08	0.5619	9.043	0.6513	9.586	81.39
20.7	5.06	0.564	8.966	0.651	9.555	81.31
20.6	5.03	0.5579	9.022	0.6501	9.638	80.32
20.5	5.01	0.5582	8.972	0.6495	9.593	80.38
20.4	4.98	0.5563	8.959	0.6484	9.569	80.33
20.3	4.96	0.5555	8.929	0.6472	9.559	80.17
20.2	4.94	0.5535	8.916	0.6452	9.551	80.09
20.1	4.91	0.5507	8.918	0.6451	9.54	79.79
20.0	4.89	0.5467	8.938	0.6438	9.535	79.60

- ◆ (Under standard test condition): 1000W/ m², AM 1.5G, 25°C
- ◆ 19.80% → (actual range)19.80%~19.90%

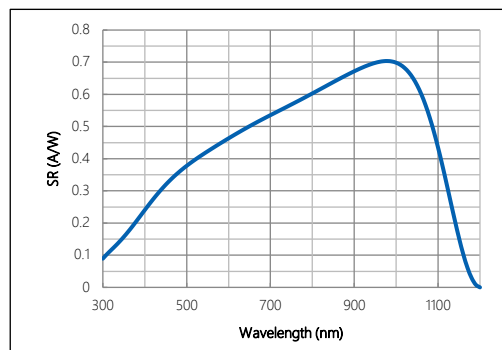
TEMPERATURE COEFFICIENTS

Current Temperature Coefficient	Tk _{Current} : +0.048%/K
Voltage Temperature Coefficient	Tk _{Voltage} : -0.30%/K
Power Temperature Coefficient	Tk _{Power} : -0.38%/K

IV CURVE



SPECTRAL RESPONSE



Specifications subjects to technical changes and tests, Taipo Energy reserves the right of final interpretation.