

Color: Dark Blue, Blue, Sky Blue

4 X 1.1 mm ±0.15 mm wide bus bars

Distance between bus bars : 39 mm

Back(+) Aluminum back surface field

4x3 soldering pads, 2.1 mm ± 0.15 mm wide bus bars

Distance between bus bars: 39 mm



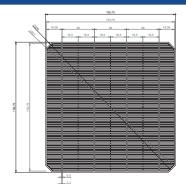


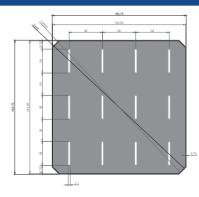
Features

- -High Cell-To- Module ratio through precise cell conversion efficiency sorting, classified efficiency grade by both minimum power and current.
- -Excellent electrical long-term stability and reliability by using of best raw materials and through strict quality inspection control.
- -Low breakage rate by using high qualified and stable wafers.
- -High quality homogeneous appearance by sorting into defined color classes.
- -100% screened for reverse current and shunt resistance.
- -Excellent solderability through high quality conductive materials and regular monitor soldering properties.

Quality Control and Professional Service

- -Regular calibration of test equipment using Fraunhofer ISE reference cell.
- -Environmental friendly due to REACH-SVHC and RoHS compliances.
- -Professional on-site service and support for module certification.
- -Regular light source AAA class calibration for stable conversion efficiency.
- -Lowest LID by periodic monitoring and superior wafer incoming control.





Electrical Characteristics

Efficiency Code		202	201	200	199	198	196	194	192	190	188
Efficiency	Eff(%)	20.20	20.10	20.00	19.90	19.80	19.60	19.40	19.20	19.00	18.80
Power	Pmpp(W)	4.94	4.91	4.89	4.86	4.84	4.79	4.74	4.69	4.64	4.59
Max. Power Current	Impp(A)	8.966	8.948	8.926	8.886	8.856	8.825	8.796	8.784	8.765	8.708
Short Circuit Current	Isc(A)	9.426	9.412	9.393	9.353	9.326	9.297	9.276	9.279	9.273	9.247
Max. Power Voltage	Vmpp(V)	0.550	0.549	0.547	0.547	0.546	0.543	0.539	0.534	0.530	0.527
Open Circuit Voltage	Voc(V)	0.647	0.645	0.643	0.643	0.642	0.638	0.635	0.632	0.630	0.629

Standard test condition: AM1.5, 1000W/m², 25°c Average accuracy of all tests is +/-1.5% rel.

TSS64TN 6" Mono c-Si Solar Cell



Current Temperature Coefficient	a(ISC)	0.05%/K
Voltage Temperature Coefficient	β(VOC)	-0.33%/K
Power Temperature Coefficient	γ(Pmax)	-0.42%/K

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

Processing Recommendations

Solder Joint

Copper ribbons coated with 15~25µm: 62%Sn/36%Pb/2%Ag

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

Solderability

Peel Strength Minimum

> 1.25 N/mm

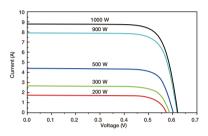
Soldering results may differ due to different flux, ribbons, soldering methods, and parameters.

Qualifications and Certificates

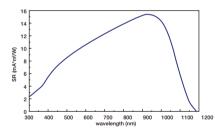


RoHS Compliance SVHC tested

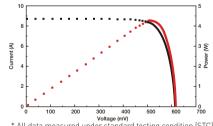
Typical Current-Voltage Curve



Typical Spectral Response

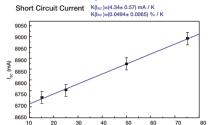


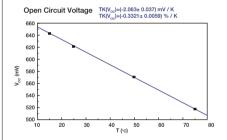
Typical IV-Power Curve

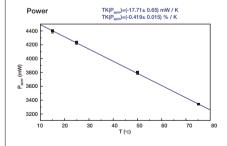


- * All data measured under standard testing condition (STC): 1000 W/m², AM 1.5, 25 °C.
- * All figures bear ±2% tolerance.
- * Reference cell calibrated by the Fraunhofer ISE in Freiburg.

Calculated Temperature Coefficients







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D210_M

Specifications are subject to change without prior notice.
TSEC reserves the rights of final interpretation
and revision of datasheet.
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