



ECE(G)-TP-ZZ-006-A/1

TALON PV
solar solutions



ECE-182M-10D11 (F160R200) N-type TOPCon

N Enhanced N-type Solar Cell

Prominent Features



Excellent anti-PID Capacity
Resist to PID



Less LID More Power
Lower LID



Enhanced Efficiency in Low-Light Conditions
Efficiency conversion rate $\geq 92\%$ under low light ($200 \text{ W} / \text{m}^2$)



Low Temperature Coefficiency
Coefficient low temperature power to $-0.30\% / \text{K}$



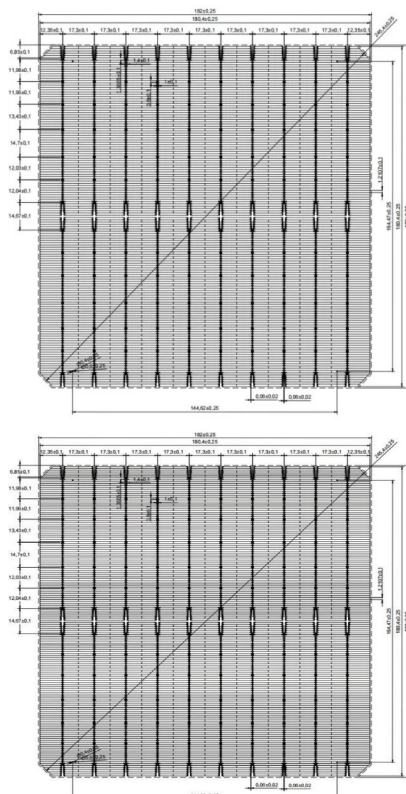
High Conversion Efficiency
Front efficiency $\geq 25.5\%$, Bifacial rate $\geq 80\%$



Lower Cell to Module Loss Rate
Less Sealing Damage

Mechanical Features

Model	182 mono-crystalline Bifacial solar cell (CZTL-182M-10D11)
Dimension	182.2mmx182.2mm ± 0.5 mm, Φ 295mm ± 0.5 mm
Thickness	130 $\mu\text{m} \pm 13\mu\text{m}$
Front	10 busbars, 14 pads, 186 fingers, busbar width 0.036 ± 0.02 mm
Back	10 busbars, 14 pads, 200 fingers, busbar width 0.036 ± 0.02 mm



Temperature Coefficiency

TkCurrent	0.045%/K
TkPower	-0.30%/K
TkVoltage	-0.25%/K



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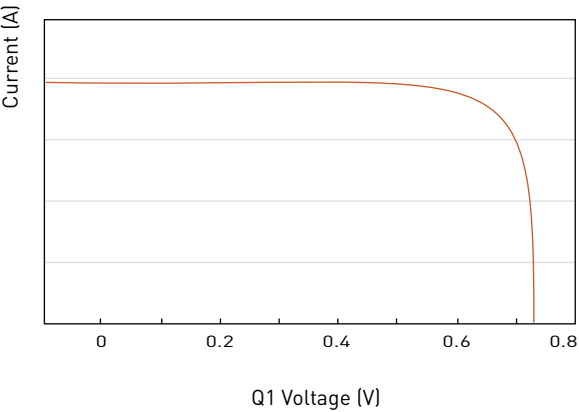
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Electrical Features

Efficiency (%)	Power Pmpp(W)	Max. Power Voltage Vmpp(V)	Max. Power Current Impp(A)	Open Circuit Voltage Voc(V)	Short Circuit Current Isc(A)	Fill Factor FF(%)
25.40	8.39	0.657	12.76	0.735	13.69	84.88
25.30	8.35	0.655	12.74	0.735	13.67	84.70
25.20	8.32	0.654	12.73	0.734	13.66	84.54
25.10	8.29	0.652	12.71	0.733	13.65	84.38
25.00	8.25	0.649	12.71	0.732	13.65	84.20
24.90	8.22	0.647	12.71	0.730	13.65	84.88
24.80	8.19	0.644	12.71	0.728	13.65	12.04
24.70	8.15	0.641	12.71	0.727	13.65	83.90
24.60	8.12	0.639	12.71	0.725	13.64	83.75
24.50	8.09	0.637	12.71	0.723	13.64	83.64
24.40	8.06	0.634	12.71	0.721	13.65	83.51
24.30	8.02	0.631	12.72	0.719	13.66	83.39
23.90	7.89	0.630	12.52	0.718	13.65	83.22
23.60	7.79	0.621	12.55	0.715	13.64	83.24

Standard Test Contition (STC): 1000W/m², AM 1.5G,25 °C / Solar Cell Efficiency Positive Tolerance / Specifications and data for reference only

Curve



Spectral Response

