

TONGWEI

TNC 3.0

TNC 3.0-G12R

N-Type Bifacial Solar Cell | H2213-216F-TP



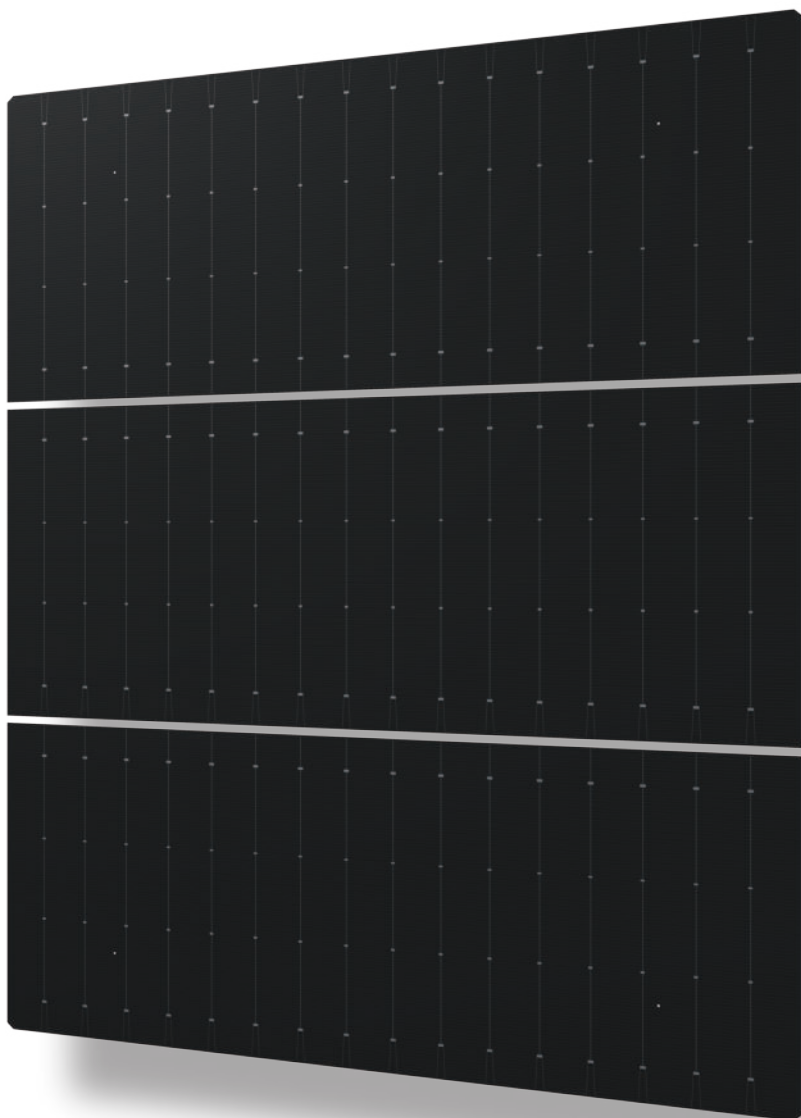
**High
Efficiency**



**Excellent
Quality**



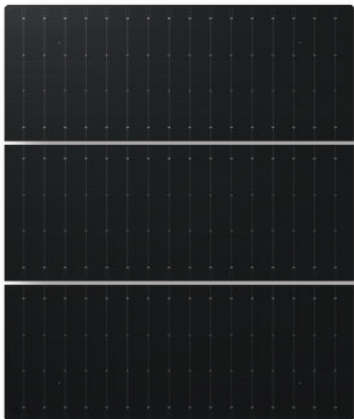
**Prominent
Reliability**



<https://en.tongwei.cn/cell.html>

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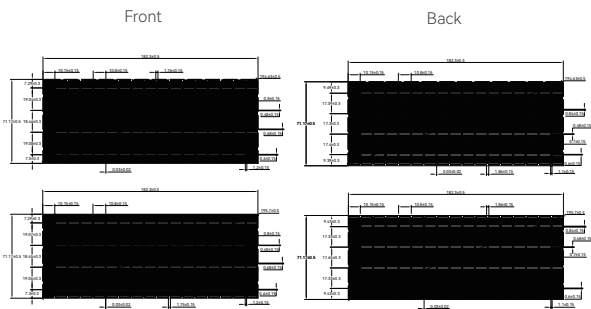
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Front Electrical Performance Parameters

Eff (%)	Pmpp (W)	Vmpp (V)	Impp (A)	Voc (V)	Isc (A)	FF (%)
26.6	3.45	0.633	5.452	0.740	5.579	83.60
26.5	3.44	0.632	5.440	0.739	5.568	83.56
26.4	3.43	0.632	5.420	0.739	5.555	83.46
26.3	3.41	0.631	5.408	0.739	5.540	83.35
26.2	3.40	0.630	5.396	0.739	5.526	83.24
26.1	3.39	0.629	5.383	0.739	5.520	83.01
26.0	3.37	0.628	5.371	0.738	5.517	82.85
25.9	3.36	0.627	5.359	0.738	5.506	82.69
25.8	3.35	0.626	5.347	0.738	5.496	82.52
25.7	3.33	0.625	5.335	0.737	5.493	82.36
25.6	3.32	0.624	5.323	0.737	5.482	82.20
25.5	3.31	0.623	5.310	0.737	5.479	81.93
25.4	3.30	0.622	5.298	0.736	5.475	81.78
25.3	3.28	0.621	5.286	0.736	5.470	81.53

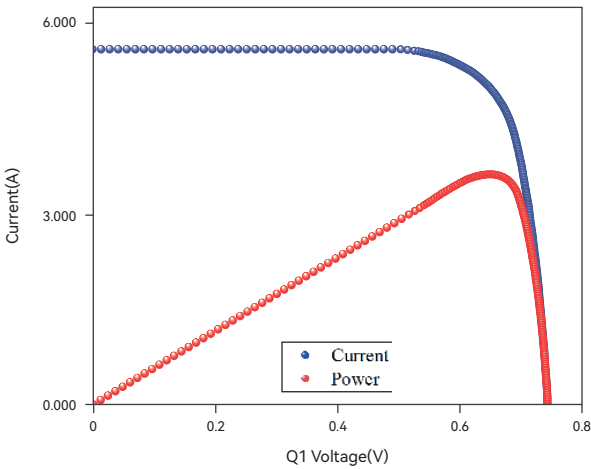
Product Appearance (mm)



Product Design

Dimension	182.3mm*71.17mm±0.5mm Φ194.63mm±0.5mm, Φ195.7mm±0.5mm	TkVoltage: -(0.25±0.01)%/K
Thickness	130±13μm	TkCurrent: +(0.04±0.004)%/K
Front	16 busbars, 104 fingers Anti-reflective coating (silicon nitride)	TkPower: -(0.29±0.025)%/K
Back	16 busbars, 84 fingers Anti-reflective coating (silicon nitride)	Rsh≥50Ω Irev2≤0.5A

IV Curve



Back Electrical Performance Parameters

Eff (%)	Pmpp (W)	Vmpp (V)	Impp (A)	Voc (V)	Isc (A)	FF (%)
> 23.5	3.10	0.595	5.208	0.704	5.146	85.53
22.5-23.0	2.94	0.585	5.030	0.698	5.137	82.07
22.0-22.5	2.87	0.576	4.990	0.698	5.090	80.91
< 22.0	2.82	0.571	4.939	0.696	5.066	79.99

STC (Standard Testing Conditions): 1000W/m², AM1.5G, 25°C
26.08.05

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Statement: With technological progress and product iteration, deviations may exist between the technical parameters of Tongwei's cell products and those stated in the specification. Tongwei reserves the right to adjust technical parameters at any time without prior notice to customers. The final interpretation of the technical specification shall vest in Tongwei.