

TONGWEI

TNC 3.0

TNC 3.0-G12R

N-Type Bifacial Solar Cell | TW213-216C-TP



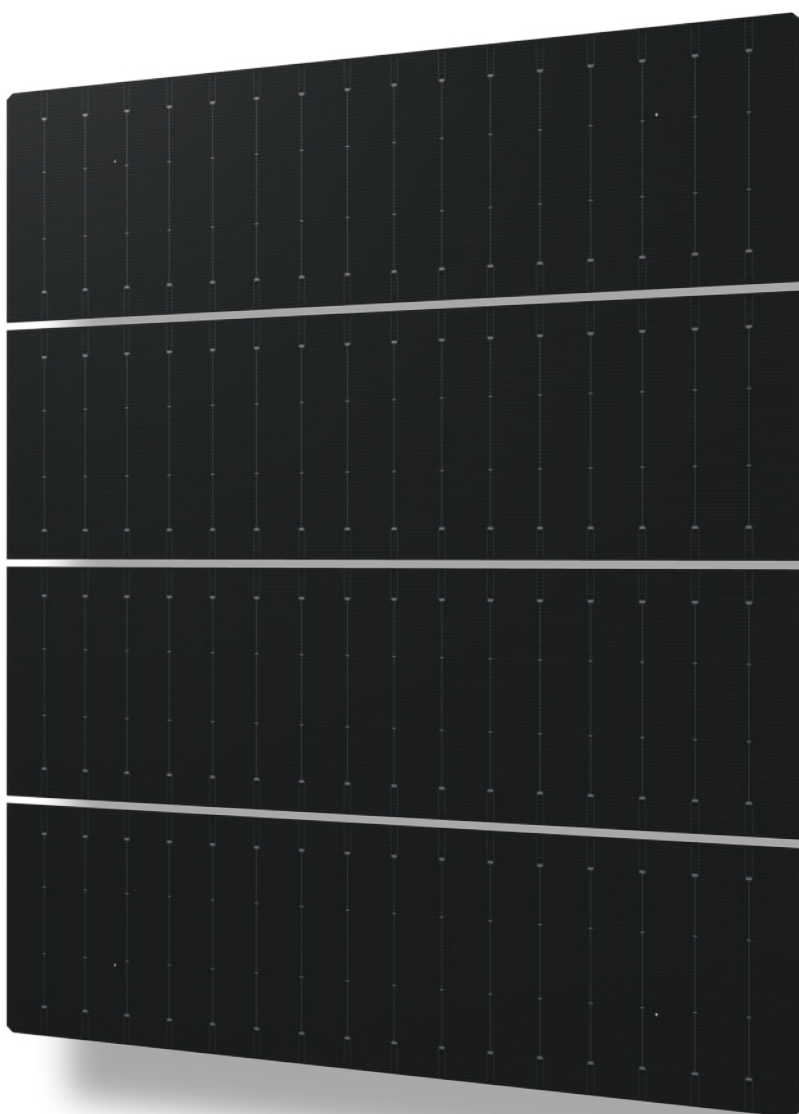
**High
Efficiency**



**Excellent
Quality**



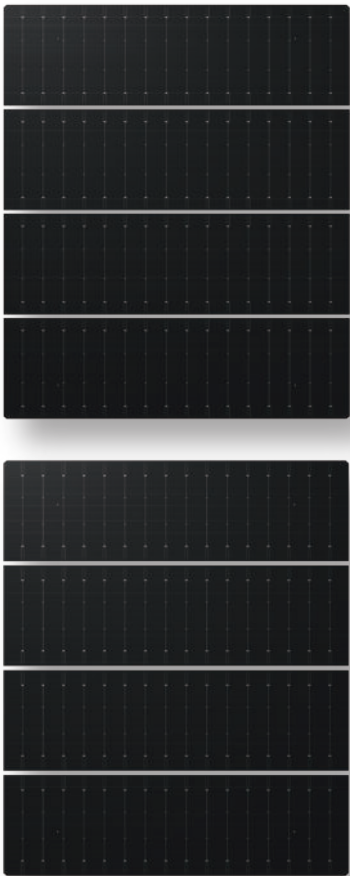
**Prominent
Reliability**



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

TNC 3.0-G12R

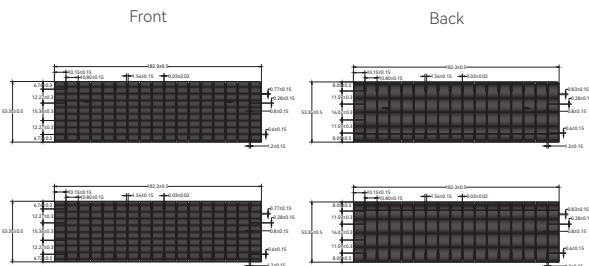
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Front Electrical Performance Parameters

Eff (%)	Pmpp (W)	Vmpp (V)	Impp (A)	Voc (V)	Isc (A)	FF (%)
26.8	2.61	0.661	3.948	0.745	4.107	85.29
26.7	2.60	0.66	3.939	0.744	4.105	85.12
26.6	2.59	0.659	3.931	0.744	4.102	84.88
26.5	2.58	0.658	3.922	0.744	4.099	84.62
26.4	2.57	0.657	3.913	0.743	4.096	84.47
26.3	2.56	0.656	3.904	0.743	4.094	84.19
26.2	2.55	0.656	3.890	0.743	4.091	83.95
26.1	2.54	0.656	3.874	0.743	4.087	83.69
26.0	2.53	0.655	3.866	0.742	4.081	83.62
25.9	2.52	0.654	3.856	0.742	4.085	83.20

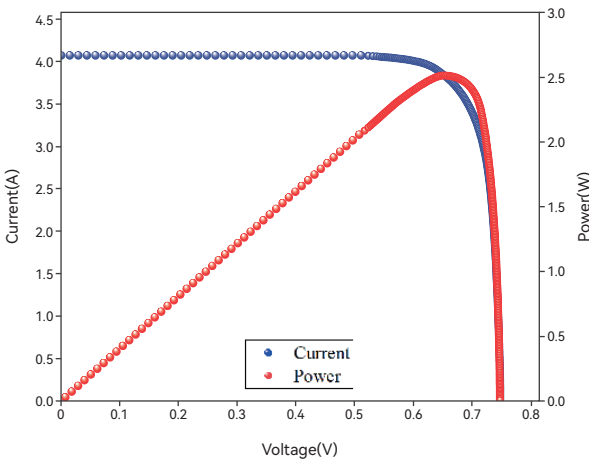
Product Appearance (mm)



Product Design

Dimension	182.55*53.35±0.5mm	TkVoltage: $-(0.25\pm0.01)\%/K$
Thickness	130±20 μm	TkCurrent: $+(0.04\pm0.004)\%/K$
Front	16 busbars (silver), 69 fingers Anti-reflective coating (silicon nitride)	TkPower: $-(0.29\pm0.025)\%/K$
Back	16 busbars (silver), 64 fingers Anti-reflective coating (silicon nitride)	Rsh $\geq 50\Omega$, Irev2 $\leq 0.5A$

IV Curve



Back Electrical Performance Parameters

Eff (%)	Pmpp (W)	Vmpp (V)	Impp (A)	Voc (V)	Isc (A)	FF (%)
≥ 22.8	2.22	0.632	3.513	0.733	3.553	85.25
22.7	2.21	0.631	3.503	0.731	3.548	85.23
22.6	2.20	0.630	3.494	0.732	3.542	84.90
< 22.5	2.19	0.629	3.484	0.730	3.541	84.78

STC (Standard Testing Conditions): 1000W/m², AM1.5, 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.