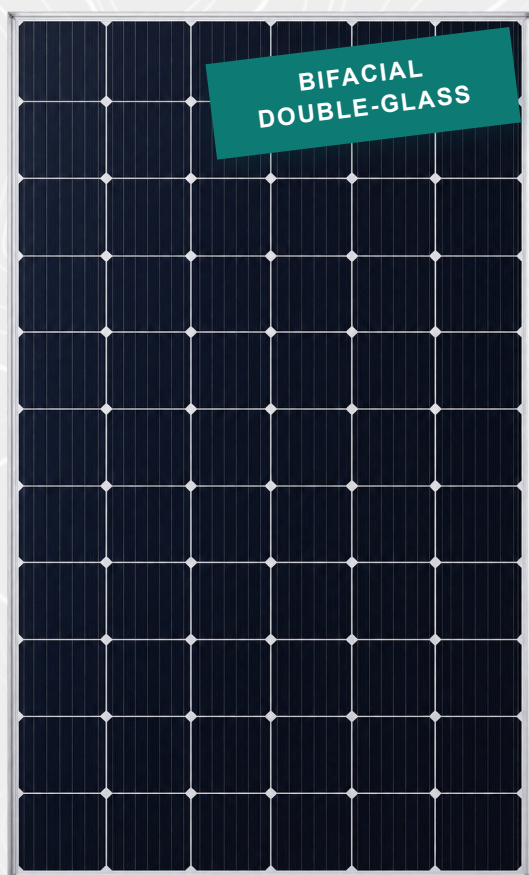


545W-565W

SZAL-144PP-BF



21.87%

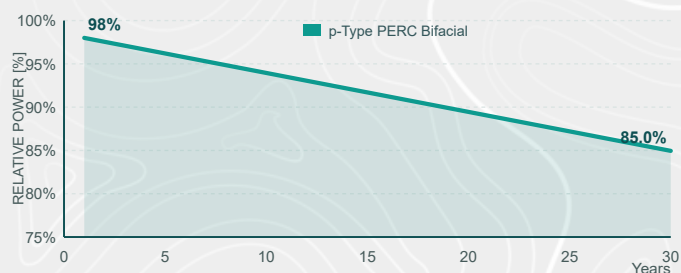
Maximum Efficiency

144

Half Cells

- ◆ P-type PERC Technology
- ◆ High power output — 545–565 Wp, up to 21.87% efficiency
- ◆ Bifacial double-glass for additional rear-side yield
- ◆ Multi-busbar half-cut cell design
- ◆ Certified to IEC 61215 & IEC 61730 standards

OUR PERFORMANCE WARRANTY



30 YEARS

Performance Warranty

12 YEARS

Product Warranty

≤ 2% first-year degradation, then 0.45 percentage points of initial rated power annually — 84.95% min. warranted power at year 30

*Specifications are subject to change without notice. Actual performance may vary. Warranty terms are defined in the latest SOLANZO Limited Warranty.



BIFACIAL - DOUBLE GLASS

SZAL-144PP-BF 545W-565W

P-TYPE PERC TECHNOLOGY

Electrical specifications (STC*):

Module model	SZAL-144PP-BF-	545	550	555	560	565
Nominal max. power P_{max} (Wp)		545	550	555	560	565
Maximum operating voltage V_M (V)		41.32	41.51	41.70	41.89	42.08
Maximum operating current I_M (A)		13.19	13.25	13.31	13.37	13.43
Open-circuit voltage V_{oc} (V)		49.92	50.11	50.30	50.49	50.68
Short-circuit current I_{sc} (A)		13.95	14.01	14.07	14.13	14.19
Module efficiency η (%)		21.10	21.29	21.48	21.68	21.87
Power tolerance (%)		0 to +3				
Maximum system voltage (V/DC)		1500				
Maximum series fuse rating (A)		30				

*STC: Standard Test Conditions (irradiance 1000 W/m², cell temperature 25°C and air mass of AM1.5), measurement tolerance Pmax: ±3%.

Electrical specifications (NOCT*):

Nominal max. power P_{max} (Wp)	405	409	413	417	420
Maximum operating voltage V_M (V)	38.25	38.42	38.59	38.76	38.89
Maximum operating current I_M (A)	10.60	10.65	10.70	10.75	10.81
Open-circuit voltage V_{oc} (V)	47.12	47.30	47.48	47.66	47.84
Short-circuit current I_{sc} (A)	11.27	11.32	11.36	11.41	11.46

*NOCT: Nominal Operating Cell Temperature — irradiance 800 W/m², ambient temperature 20 °C, wind speed 1 m/s, air mass AM1.5. Values illustrate representative operating conditions; actual output depends on ventilation, mounting, weather and cell temperature.

Bifacial electrical specifications

Max. power front-side P _{max front} (Wp)	545		550		555		560		565	
Backside Power Gain	5%	10%	5%	10%	5%	10%	5%	10%	5%	10%
Total equivalent power P _{max equ} (Wp)	572	600	578	605	583	611	588	616	593	622

*Bifacial gain values represent the instantaneous increase in electrical power due to rear-side irradiance, expressed as a percentage of the module's front-side rated power at STC. Actual energy yield depends on mounting configuration, rear-side irradiance, and ground albedo.

Mechanical and design specifications

Cell type	P-Type Monocrystalline PERC Bifacial Half-Cut Cells
Cell configuration	144 Half-Cut Cells (6 × 24)
Bifaciality	70 ± 5%
Front cover	2.0 mm anti-reflective coated glass
Back cover	2.0 mm heat-strengthened glass
Junction box	IP68 rated
Frame	30 mm anodized aluminium alloy
Cable (incl. connectors)	4.0 mm² PV cable, +400/-200 mm, customizable
Dimension	2278 mm x 1134 mm x 30 mm
Weight	32 kg

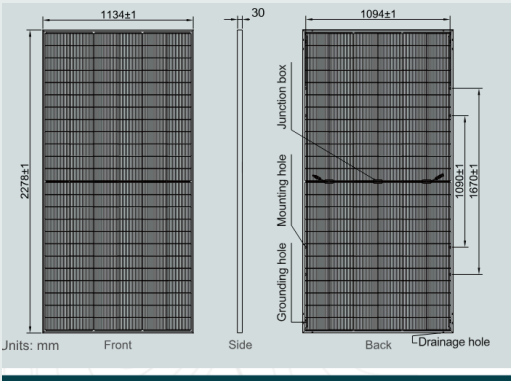
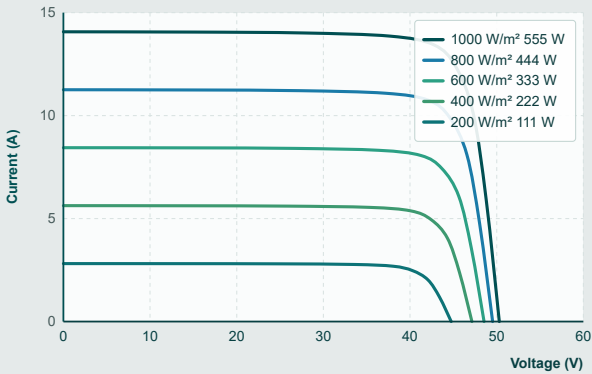
Packaging information

 36 pcs Modules per pallet	 72 pcs Modules per stack	 1,152 kg Net per pallet	 720 pcs Modules per 40' HC container
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Temperature ratings

Operating temperature	-40 to +85°C
Temp. coefficient of Pmax	-0.35 %/°C
Temp. coefficient of Voc	-0.28 %/°C
Temp. coefficient of Isc	+0.048 %/°C
Nom. operating cell temp. (NOCT)	45 ± 2°C

Representative I-V Characteristics — 555W Module
Cells temp. = 25°C



Environmental & reliability testing: IEC 61701 Salt Mist Corrosion Resistance · IEC 62716 Ammonia Corrosion Resistance · IEC TS 62804-1 PID Resistance

Specifications are subject to change without notice. Electrical data are based on STC conditions. Actual performance may vary. Warranty terms are defined in the latest SOLANZO Limited Warranty.

PRODUCT CERTIFICATIONS



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