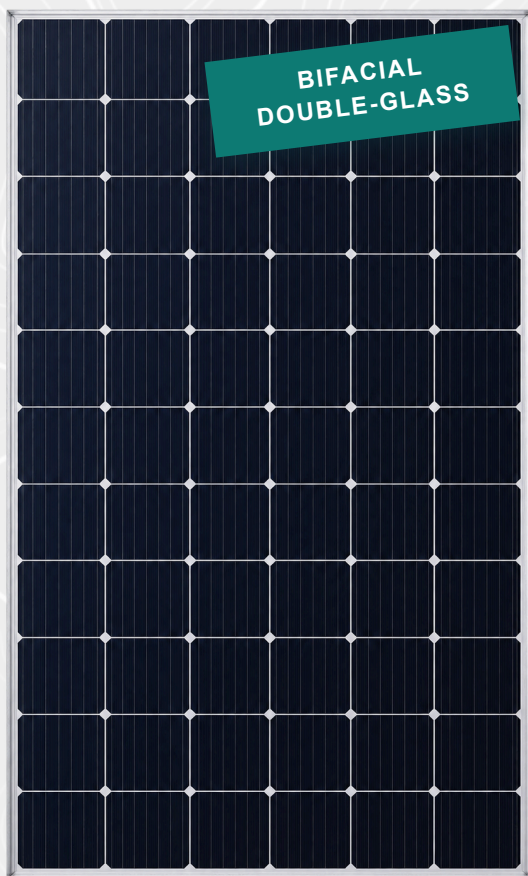


645W-665W

SZAL-132PP-BF



21.4%

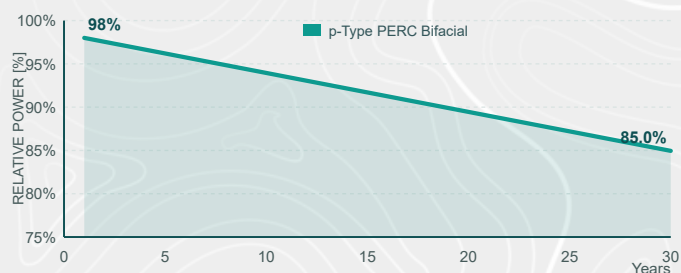
Maximum Efficiency

132

Half Cells

- ◆ P-type PERC Technology
- ◆ High power output — 645–665 Wp, up to 21.4% 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-132PP-BF 645W-665W

P-TYPE PERC TECHNOLOGY

Electrical specifications (STC*):

Module model	SZAL-132PP-BF-	645	650	655	660	665
Nominal max. power P_{max} (Wp)		645	650	655	660	665
Maximum operating voltage V_M (V)		37.5	37.7	37.9	38.1	38.3
Maximum operating current I_M (A)		17.23	17.27	17.31	17.35	17.39
Open-circuit voltage V_{oc} (V)		45.3	45.5	45.7	45.9	46.1
Short-circuit current I_{sc} (A)		18.31	18.35	18.4	18.45	18.5
Module efficiency η (%)		20.8	20.9	21.1	21.2	21.4
Power tolerance (W)		0~+5				
Maximum system voltage (V/DC)		1500				
Maximum series fuse rating (A)		35				

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

Electrical specifications (BNPI*: 1000 W/m² + 135 W/m²):

Nominal max. power P_{max} (Wp)	706	711	717	722	728
Maximum operating voltage V_M (V)	37.5	37.7	37.9	38.1	38.3
Maximum operating current I_M (A)	18.83	18.87	18.92	18.96	19
Open-circuit voltage V_{oc} (V)	45.3	45.5	45.7	45.9	46.1
Short-circuit current I_{sc} (A)	20.04	20.08	20.14	20.19	20.25

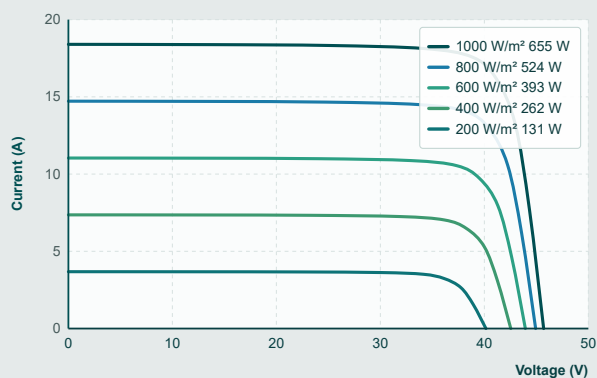
*BNPI (Bifacial Nameplate Irradiance, per IEC TS 60904-1-2): front side 1000 W/m² + rear side 135 W/m², cell temperature 25 °C, air mass AM1.5. Actual bifacial energy yield gain depends on rear-side irradiance, ground albedo, mounting configuration, and installation conditions. Nominal bifaciality factor: 70% (±5 percentage points).

Bifacial electrical specifications

Max. power front-side $P_{\text{max front}}$ (Wp)	645		650		655		660		665	
Backside Power Gain	5%	10%	5%	10%	5%	10%	5%	10%	5%	10%
Total equivalent power $P_{\text{max equ}}$ (Wp)	677	710	683	715	688	721	693	726	698	732

*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.

Cells temp. = 25°C



Mechanical and design specifications

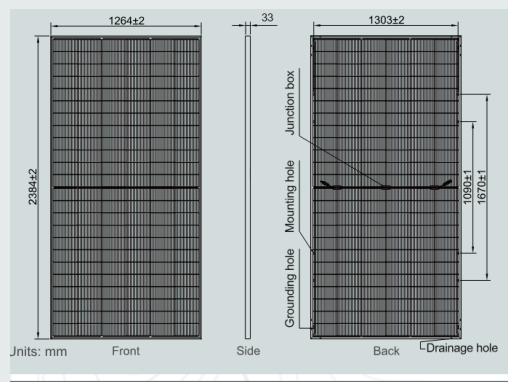
Cell type	P-Type Monocrystalline PERC Bifacial Half-Cut Cells
Cell configuration	132 Half-Cut Cells (6 × 11 × 2)
Bifaciality	70 ± 5%
Front cover	2.0 mm AR-coated heat-strengthened glass
Back cover	2.0 mm heat-strengthened glass with white coating
Junction box	IP68 rated
Frame	33 mm anodized aluminium alloy
Cable (incl. connectors)	4.0 mm² PV cable, 350/280 mm portrait or customized
Connectors	MC4 EVO2 / TS4 (regional variant)
Dimension	2384 mm x 1303 mm x 33 mm
Weight	38.3 kg
Wind load (rear side)	2400 Pa (≈244 kg/m²)
Snow load (front side)	5400 Pa (≈550 kg/m²)

Packaging information

	L (length): 1325 mm H (height): 1121 mm W (width): 2496 mm	 33 pcs Modules per pallet	 1,264 kg Net per pallet	 594 pcs Modules per 40' HQ container
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Temperature ratings

Operating temperature	-40 to +85°C
Temp. coefficient of Pmax	-0.34 %/°C
Temp. coefficient of Voc	-0.25 %/°C
Temp. coefficient of Isc	+0.04 %/°C
Nom. operating cell temp. (NOCT)	43 ± 2°C



Environmental & reliability testing: IEC 61701 Salt Mist Corrosion Resistance · IEC 62716 Ammonia Corrosion 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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