

SOLYCO Pro

R-TG 108n.3 EU30 /430

R-TG 108n.3 EU40 /430



Maximum load resistance: TOPCon double-glass module manufactured in the EU for snowy and alpine regions



Maximum energy generation

TOPCon double-glass module with high module efficiency of 21.8 % for more yield.



European excellence

Produced in a state-of-the-art EU facility adhering to the highest ISO standards for safety, environmental protection, and quality.



Extended longevity

Special combination of embedding materials guarantees maximum longevity and reliability.



Best cell quality

Exceptional reliability thanks to the exclusive use of Grade A cells. 100 % EL tested.



Improved warranty

Up to 30 years product warranty and 87.4 % performance guarantee after 30 years due to exceeded standards.

Certificates

- IEC 61215:2016 (module reliability)
- IEC 61730:2016 (module safety)



DE 63944028



Superior Solar Solutions

 German
Warranty Provider

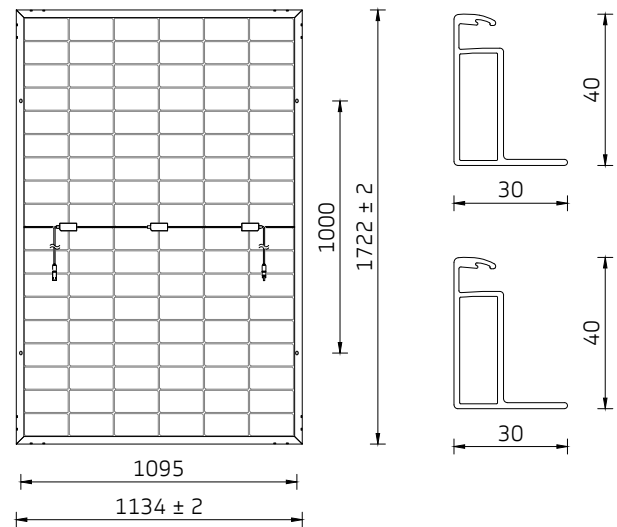


R-TG 108n.3 EU30 /430

R-TG 108n.3 EU40 /430

Mechanical data

Cell technology	TOPCon, monocrystalline
Cell size and quantity	182 mm x 91 mm; 108 half cells
Module dimensions	1722 mm x 1134 mm x 30/40 mm
Module weight	24.3 kg (30 mm); 24.70 kg (40 mm)
Frame	Black anodised aluminium
Front glass	2.0 mm tempered solar glass (ESG) with anti-reflective coating
Back glass	2.0 mm tempered solar glass (TVG)
Junction box and IP rating	3 pcs with one bypass diode each, potted in accordance with IP68
Cable and connector	4 mm ² solar cable, length 120 cm, STÄUBLI MC4-Evo 2 connector



Electrical data

Conditions	425 Wp			430 Wp		
	STC	NMOT	BNPI	STC	NMOT	BNPI
STC power output P _{max} (Wp)	425	322	468	430	326	473
Nominal power voltage V _{mp} (V)	31.55	30.04	31.55	31.73	30.20	31.73
Nominal power current I _{mp} (A)	13.48	10.73	14.83	13.56	10.78	14.91
Open circuit voltage V _{oc} (V)	38.07	36.21	38.07	38.25	36.3	38.25
Short circuit current I _{sc} (A)	14.67	11.50	16.25	14.31	11.56	15.86
Bifacial coefficient (%)	80 ± 5			80 ± 5		
Module efficiency (%)	21.8			22.0		

Packaging

	27/36 modules per pallet (40 / 30 mm)
	756/936 modules per truck (40 / 30 mm)
	736/910 kg per pallet (40 / 30 mm)

STC (nominal data under standard test conditions): irradiance 1000 W/m²; AM 1.5 spectrum; module temperature 25 °C; sorting for P_{max} 0 to +5 W. NMOT (nominal data at Nominal Module Operating Temperature): irradiance 800 W/m²; AM 1.5 spectrum; ambient temperature 20 °C; wind velocity 1 m/s. BNPI (Bifacial Nameplate Irradiance): irradiance 1000 W/m² at the front and 135 W/m² at the back; applied according to a method defined in IEC TS 60904-1-2.
P_{max} tolerance: ±3.0 %; V_{oc}, V_{mp}, I_{sc}, I_{mp} tolerances: ±5.0 %.

Connection and operating conditions

Maximum system voltage	1500 V
Operating temperature range	-40 °C ... +85 °C
Mechanical resilience ¹	Pressure resistance tested at 5400 Pa Wind suction load resistance tested at 2400 Pa
Safety class	II
Reverse current overload	25 A
Fire classes ²	A (UL 790) B _{ROOF} (t1) according to DIN EN 13501-5:2016
Hail resistance	Hailstones up to 30 mm in size and at a speed of 23.9 m/s (HW3)

¹ Specified pressure load resistance: 3600 Pa and suction load resistance: 1600 Pa;

² For all roof slopes.

Temperature coefficients

TC of the maximum power (P _{max})	-0.32 %/°C
TC of open circuit voltage (V _{oc})	-0.25 %/°C
TC of short circuit current (I _{sc})	+0.045 %/°C

