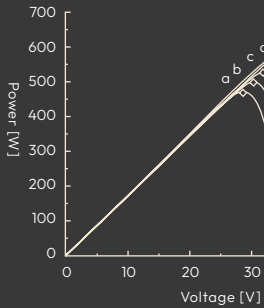
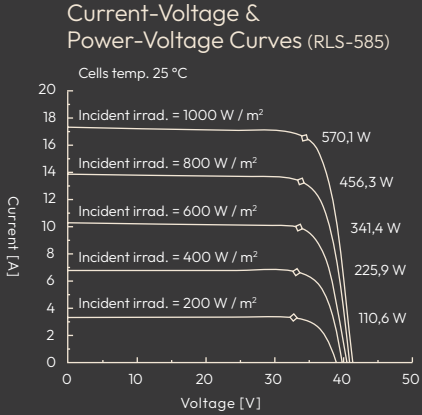




RALOS RLS-585

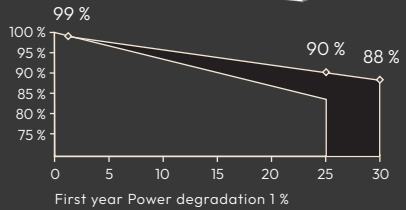
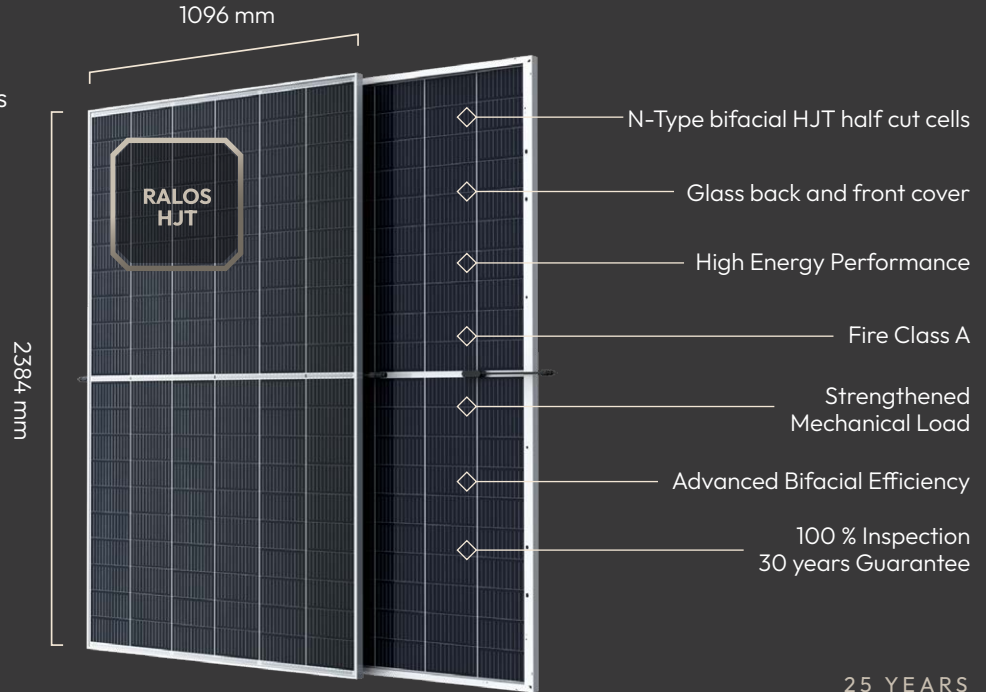
# RALOS RLS-585

Based on 210 mm wafer,  
N-Type bifacial HJT half cut cells



Incident irradi. = 1000 W / m<sup>2</sup>

a) Cells temp. = 70 °C, P<sub>mp</sub> = 470,2 W  
 b) Cells temp. = 55 °C, P<sub>mp</sub> = 504,5 W  
 c) Cells temp. = 40 °C, P<sub>mp</sub> = 537,8 W  
 d) Cells temp. = 25 °C, P<sub>mp</sub> = 570,1 W  
 e) Cells temp. = 10 °C, P<sub>mp</sub> = 601,2 W



25 YEARS  
Materials and workmanship guarantee

25 YEARS  
90 % Output Power guarantee

30 YEARS  
88 % Output Power guarantee

## Electrical Characteristics

Module Type	RLS-585		
	STC	BSTC	NOCT
Maximum Power - Pmax (W)	585	645	453
Open Circuit Voltage - Voc (V)	41,75	41,75	40,21
Short Circuit Current - Isc (A)	17,49	19,29	14,20
Voltage at Pmax -Vmp (V)	35,05	35,05	33,45
Current at Pmax - Imp (A)	16,69	18,41	13,54
Module Efficiency - $\eta_m$ (%)	22,40	-	-
Power Tolerance (W)	(0, +4,99 W)		
Maximum System Voltage (V)	1500Vdc (IEC / UL)		
Maximum Series Fuse Rating (A)	35		

STC : Irradiance 1000W/m<sup>2</sup> , Cell Temperature 25 °C Air Mass 1.5; Best in Class AAA solar simulator used, power measurement uncertainty is within ±3%.

BSTC : Front side irradiation 1000W/m<sup>2</sup>, back side reflection irradiation 135W/m<sup>2</sup>, spectrum AM1.5, ambient temperature 25 °C. Values are based on RETC certified results from a light-soaked module.

NOCT : Irradiance 800W/m<sup>2</sup> , Ambient Temperature 20 °C, Air Mass 1,5, Wind Speed 1 m/s

## Mechanical Specifications

External Dimensions	2384 x 1096 x 30 mm
Weight	32,3 kg
Solar Cells	90 half-cut,N-Type, HJT cells
Front Glass	Solar glass, 2,0 mm, with anti-reflective surface
Back Glass	Solar glass, 2,0 mm
Bifaciality	90 % +- 5 %
Frame	Anodized aluminum
Junction Box	3 diodes, IP68 rated, in accordance with IEC 62790
Cable	2200 mm
Output Cables	4.0 mm <sup>2</sup> , 2,2 m (+), 2,2 m (-)
DC-Connectors	Stäubli MC4
Mechanical Load	Front Side Max. 5400 Pa, Rear Side Max. 2400 Pa, 25 mm Hailstone at the speed of 23 m/s

## Temperature Characteristics

Pmax Temperature Coefficient	-0,243 % / °C
Voc Temperature Coefficient	-0,223 % / °C
Isc Temperature Coefficient	+0,026 % / °C
Operating Temperature	-40 to +85 °C
Nominal Operating Cell Temperature (NOCT)	43±3/ °C

## Packing Configuration

Container	40'GP
Pieces per Pallet	36
Pallets per Container	20
Pieces per Container	720

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