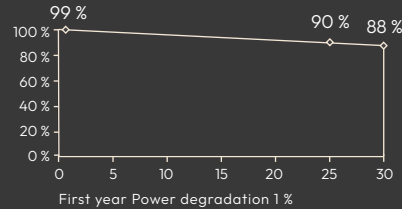
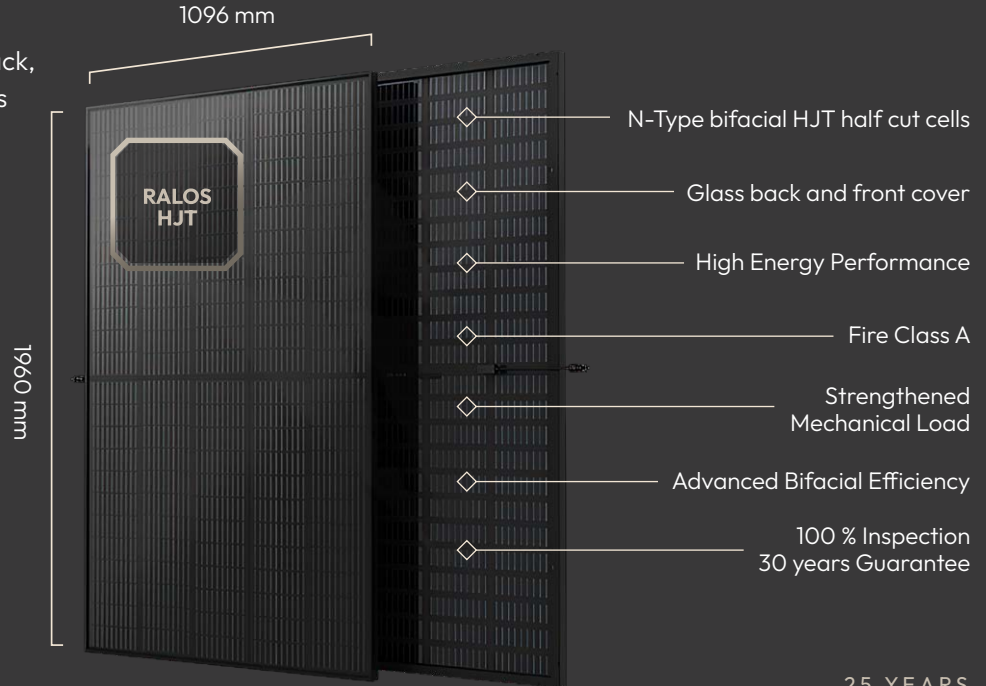
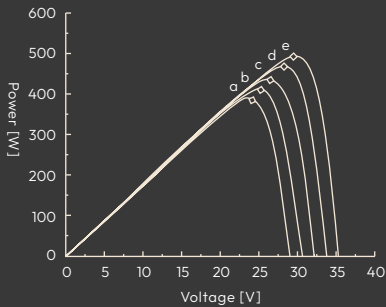
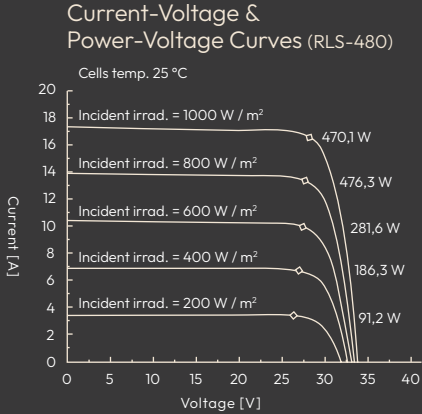




RALOS RLS-480

# RALOS RLS-480

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



- 25 YEARS  
Materials and workmanship guarantee
- 25 YEARS  
90% Output Power guarantee
- 30 YEARS  
88% Output Power guarantee

## Electrical Characteristics

Module Type	RLS-480		
	STC	BSTC	NOCT
Maximum Power - Pmax (W)	480	529	372
Open Circuit Voltage - Voc (V)	34,30	34,30	33,16
Short Circuit Current - Isc (A)	17,49	19,29	14,20
Voltage at Pmax -Vmp (V)	28,76	28,76	27,44
Current at Pmax - Imp (A)	16,69	18,41	13,56
Module Efficiency - $\eta$ m (%)	22,30	-	-
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	1960 x 1096 x 30 mm
Weight	26,1 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	24
Pieces per Container	864

WWW.RALOS.FI

p. 020 155 2222 | info@ralos.fi