



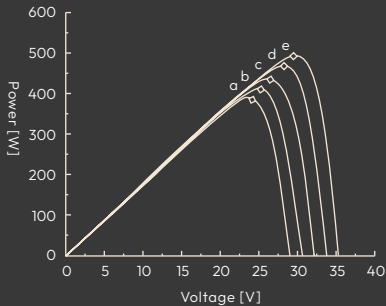
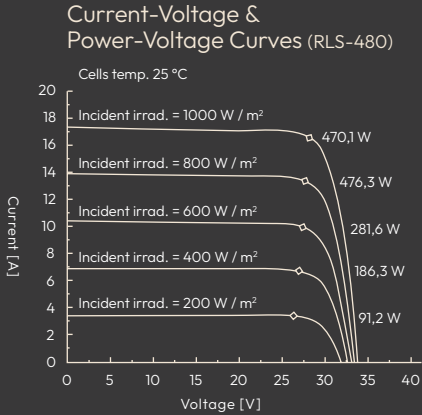
RALOS RLS-480-AC

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

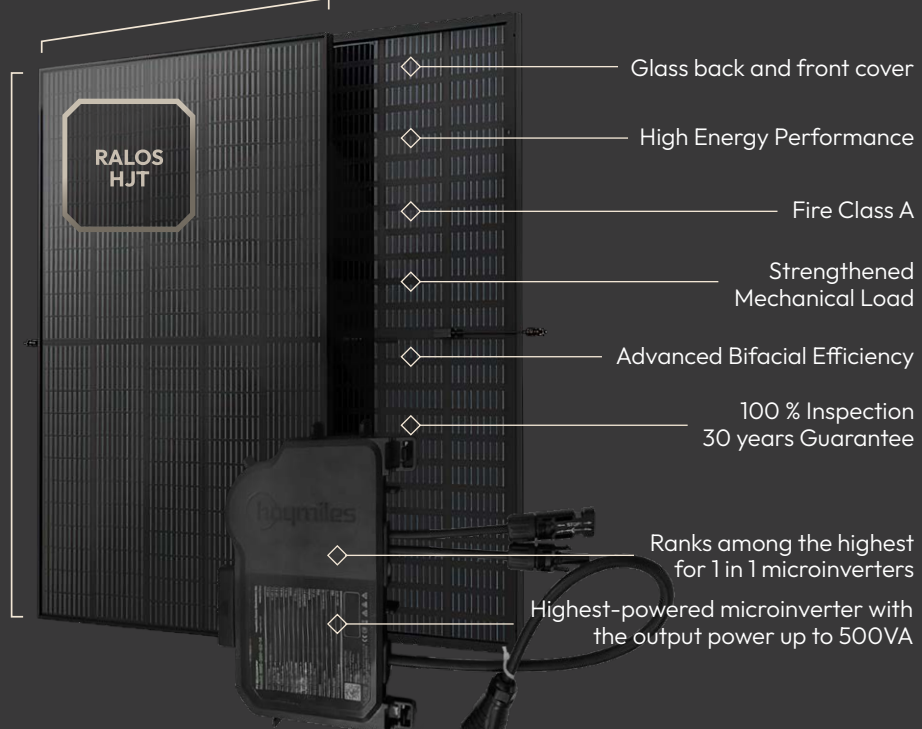
1096 mm

1960 mm



Incident irradi. = 1000 W / m²

- a) Cells temp.=70 °C, Pmpp=389,9 W
- b) Cells temp.=55 °C, Pmpp=417,4 W
- c) Cells temp.=40 °C, Pmpp=444,1 W
- d) Cells temp.=25 °C, Pmpp=470,1 W
- e) Cells temp.=10 °C, Pmpp=495,1 W



Glass back and front cover

High Energy Performance

Fire Class A

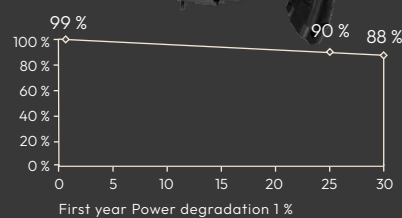
Strengthened Mechanical Load

Advanced Bifacial Efficiency

100 % Inspection
30 years Guarantee

Ranks among the highest for 1 in 1 microinverters

Highest-powered microinverter with the output power up to 500VA



25 YEARS
Materials and workmanship guarantee

25 YEARS
90 % Output Power guarantee

30 YEARS
88 % Output Power guarantee

Electrical Characteristics

Microinverter Type	HMS-500		
Rated output power (VA)	500		
Rated output current (A)	2,17		
Nominal output voltage/range (V)	230		
Nominal frequency/range (Hz)	50		
Power factor (adjustable)	> 0,99 default, 0,8 lead. / 0,8 lag.		
Total harmonic distortion	< 3 %		
CEC peak efficiency	96,5 %		
Nominal MPPT efficiency	99,8 %		
Night power consumption (mW)	< 50		
Output Cables	0,5 m, 3 x 2,5 mm ²		
Solar 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 - η_m (%)	22,30	-	-
Power Tolerance (W)	(0, +4,99 W)		

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
AC-Connectors	Betteri BC05

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

STC : Irradiance 1000W/m² , 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/m², back side reflection irradiation 135W/m², spectrum AM1.5, ambient temperature 25 °C. Values are based on RETC certified results from a light-soaked module. NOCT : Irradiance 800W/m² , Ambient Temperature 20 °C, Air Mass 1,5, Wind Speed 1 m/s. Mechanical Load : Front Side Max. 5400 Pa, Rear Side Max. 2400 Pa, 25 mm Hailstone at the speed of 23 m/s

WWW.RALOS.FI

p. 020 155 2222 | info@ralos.fi