

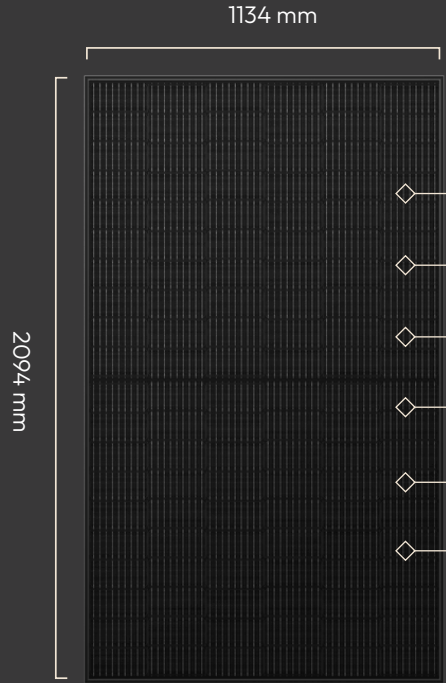
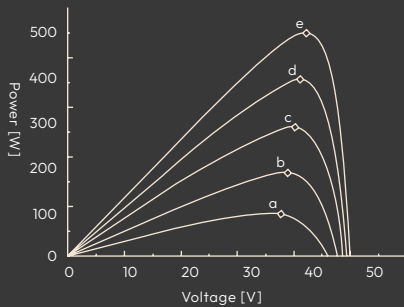
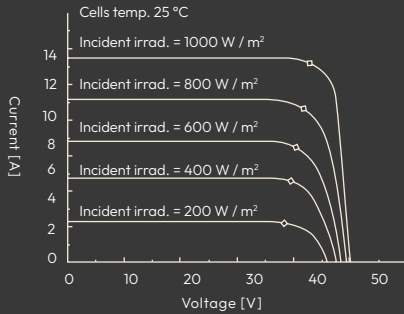


RALOS RLS-505

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182mm 132 Cells Full Black
Mono Half Cell PV-Module Series

Current-Voltage &
Power-Voltage Curves (RLS-505)



Full Black Half Cut Cell

High Energy Performance

Fire Class A

Strengthened
Mechanical Load

Advanced 21,5 % Efficiency

100 % Inspection
30 years Guarantee

25 YEARS
Materials and workmanship guarantee

12 YEARS
93 % Output Power guarantee

30 YEARS
85 % Output Power guarantee

Electrical Characteristics

Module Type	RLS-505		
	STC	BSTC	NOCT
Maximum Power - Pmax (W)	505	-	382
Open Circuit Voltage - Voc (V)	45,70	-	42,86
Short Circuit Current - Isc (A)	13,97	-	11,34
Voltage at Pmax -Vmp (V)	38,53	-	36,02
Current at Pmax - Imp (A)	13,11	-	10,60
Module Efficiency - η_m (%)	21,5	-	-
Power Tolerance (W)	(0, +4,99 W)		
Maximum System Voltage (V)	1500 Vdc (IEC / UL)		
Maximum Series Fuse Rating (A)	25		

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 Specifications

External Dimensions	2094 x 1134 x 30 mm
Weight	25,1 kg
Solar Cells	PERC Mono crystalline 182 x 83 mm (6 x 22 pcs)
Front Glass	AR Coated 3,2 mm tempered glass
Frame	Anodized aluminium alloy, black
Junction Box	IP68, 3 bypass diodes
Cable	2200 mm
Output Cables	4.0 mm ² , 2,2 m (+), 2,2 m (-)
Connector	MC4 Compatible
Mechanical Load	Front Side Max. 5400 Pa, Rear Side Max. 3600 Pa, 25 mm Hailstone at the speed of 23 m/s

Temperature Characteristics

Pmax Temperature Coefficient	-0.36 % / °C
Voc Temperature Coefficient	-0.26 % / °C
Isc Temperature Coefficient	+0.04 % / °C
Operating Temperature	-40~+85 °C
Nominal Operating Cell Temperature (NOCT)	45±2 °C

Packing Configuration

Container	40'GP
Pieces per Pallet	36
Pallets per Container	22
Pieces per Container	792

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