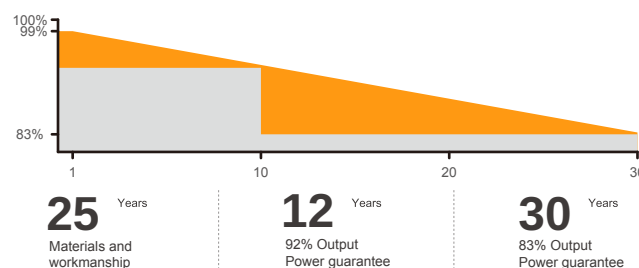






RALOS RLS-505

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





 Full Black
Half Cut Cell

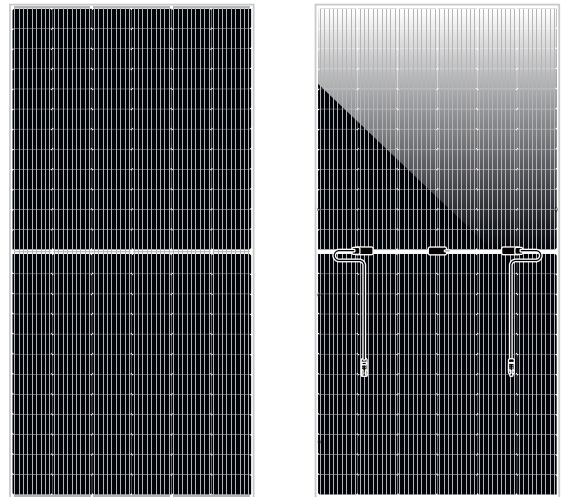
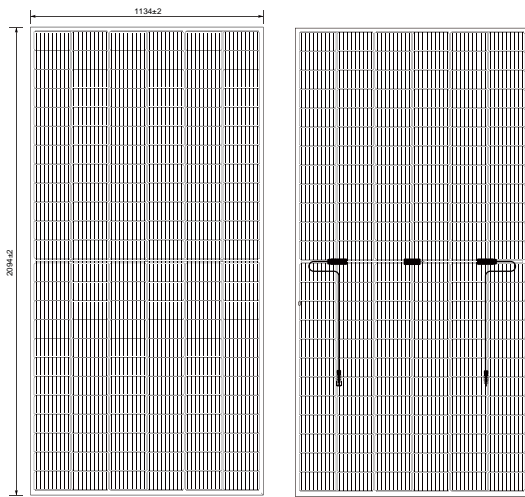
 High Energy
Performance

 100% Inspection
30years Guarantee

 Fire Class A

 5400Pa
Strengthened
Mechanical Load

 Advanced 21,5 %
Efficiency



All Dimensions in mm
The above drawing is a graphical representation of the product.

Electrical Characteristics (STC/BSTC)

Module Type	RALOS RSL-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 -ηm(%)	21,5	-	
Power Tolerance(W)	(0, +4.99W)		
Maximum System Voltage(V)	1500Vdc (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	HJT 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
Output Cables	4.0mm ² , 2,2 m (+), 2,2 m (-)
Connector	MC4 Compatible
Mechanical Load	Front Side Max. 5400Pa, Rear Side Max. 3600Pa, 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

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

