

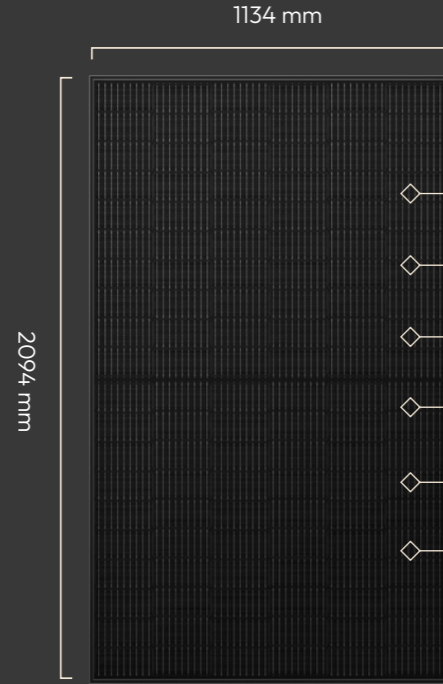
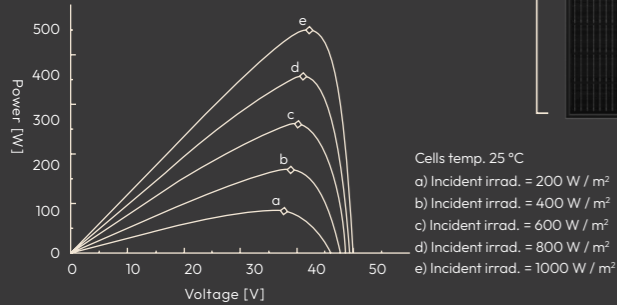
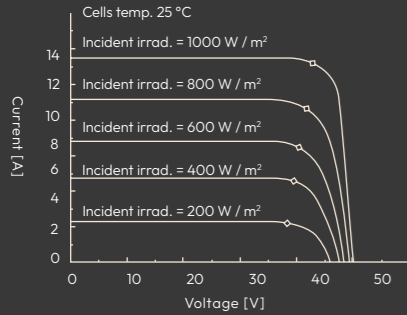


RALOS RLS-505

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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 | | |
|---------------------------------|---------------------|------|-------|
| | SCT | 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, +4,99 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 | 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 |
| 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 |

WWW.RALOS.FI

p. 020 155 2222 | info@ralos.fi