



RAYZON

SOLAR

L'LIOS

540 Wp - 555 Wp

MONO PERC 10BB

BIFACIAL (GLASS TO GLASS)

30 Years Warranty for
Linear Performance*



15 Years Product Warranty on
Materials and Workmanship*



PRODUCT | CERTIFICATES

IS 14286, IEC: 61215, 61730, 62804, 61853, 61701, 62716 •
Quality Management System : ISO 9001:2015 •
Environment Management System : ISO 14001: 2015 •
Occupational Health and Safety : ISO 45001:2018 •



PRODUCT | KEY FEATURES

- Anti-reflective (AR) Coated Glass for Enhanced Power
- Excellent Module Efficiency with Bifacial Power Gain
- Rayzon Solar Module ensures Long-term reliability
- Positive Power Tolerance with Current Binning to Prevent Mismatch Losses

TECHNICAL DATA

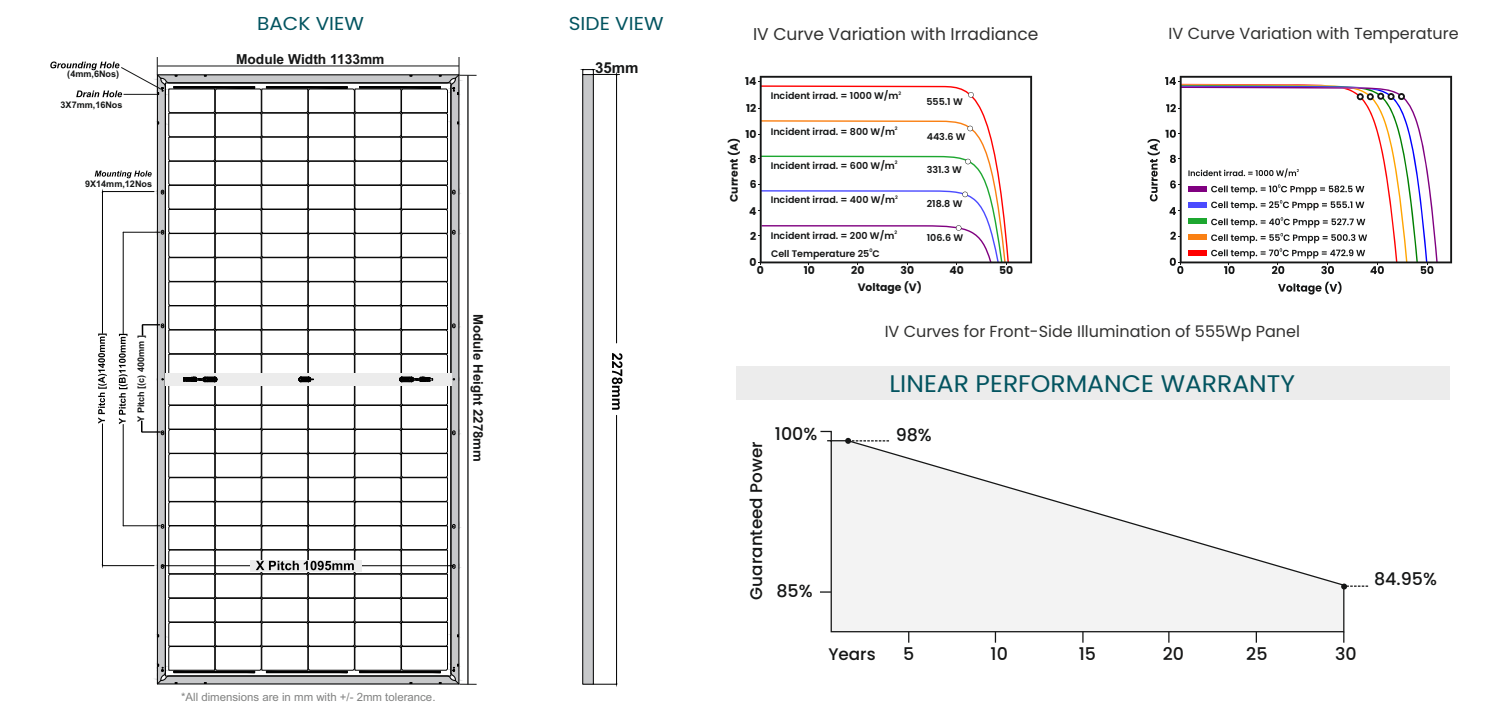
ELECTRICAL PERFORMANCE [Note: Power tolerance: 0 ~ +4.99 W. Power measurement uncertainty: < ±3%. Average value of NOCT: 44.28 ± 2 °C]

| ELECTRICAL CHARACTERISTICS* | RSG540WC | | RSG545WC | | RSG550WC | | RSG555WC | |
|---------------------------------|----------|---------|----------|---------|----------|---------|----------|---------|
| | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT |
| Nominal Maximum Power (Pmax) | 540 W | 400 W | 545 W | 403 W | 550 W | 407 W | 555 W | 411 W |
| Optimum Operating Voltage (Vmp) | 41.86 V | 38.54 V | 42.01 V | 38.68 V | 42.14 V | 38.80 V | 42.28 V | 38.93 V |
| Optimum Operating Current (Imp) | 12.91 A | 10.37 A | 12.98 A | 10.43 A | 13.06 A | 10.49 A | 13.13 A | 10.55 A |
| Open Circuit Voltage (Voc) | 49.78 V | 46.82 V | 49.91 V | 46.94 V | 50.06 V | 47.09 V | 50.20 V | 47.21 V |
| Short Circuit Current (Isc) | 13.53 A | 10.96 A | 13.59 A | 11.01 A | 13.65 A | 11.06 A | 13.71 A | 11.11 A |
| Module Efficiency | 20.94 % | | 21.13 % | | 21.32 % | | 21.52 % | |

BIFACIAL OUTPUT – BACKSIDE POWER GAIN @ STC* [Bifaciality Factor: 75% ± 10%]

[Note: The bifacial gain depends on the power plant design and site conditions. Electrical component ratings should be selected as per actual Bifacial gain at site (module currents indicated below)]

| | | | | | |
|-----|---|-------------------|-------------------|-------------------|-------------------|
| 5% | Nominal Maximum Power (Pmax) | 567 W | 573 W | 578 W | 583 W |
| | Module Short Circuit Current / Efficiency | 14.21 A / 21.99 % | 14.27 A / 22.18 % | 14.33 A / 22.39 % | 14.39 A / 22.59 % |
| 10% | Nominal Maximum Power (Pmax) | 594 W | 600 W | 605 W | 611 W |
| | Module Short Circuit Current / Efficiency | 14.88 A / 23.03 % | 14.95 A / 23.24 % | 15.02 A / 23.46 % | 15.08 A / 23.67 % |
| 25% | Nominal Maximum Power (Pmax) | 676 W | 682 W | 688 W | 694 W |
| | Module Short Circuit Current / Efficiency | 16.91 A / 26.17 % | 16.99 A / 26.41 % | 17.06 A / 26.65 % | 17.14 A / 26.89 % |



MECHANICAL SPECIFICATIONS

| | |
|-----------------------------|--|
| Dimensions | 2278(L) x 1133(W) x 35(T) in mm |
| Weight (kg) | 33 |
| Cell type / No Of Cell | 144 Half-cut Mono PERC Bifacial Solar cells |
| Frame | Anodized Aluminum Alloy (6005, Temper T6, Silver colour) |
| Front Cover | Low Iron semi-Tempered AR coated Glass (2 mm thick) |
| Encapsulate | PID resistant and UV resistant polymeric film |
| Back Cover | Low Iron semi-Tempered Glass (2 mm thick) |
| Junction Box | 25 A -Split Junction Box (3 nos. with individual Bypass Diode) – Weatherproof (IP68) |
| Bypass Diode | 40 A, 45 V, 200 °C max. junction temperature |
| Cable | 4 sq. mm, 300 mm length (Customised cable length available on request) |
| Connectors | MC4 compatible (MC4 original available on request) |
| Application Class Rating | Class A |
| Safety Class Rating | Class II |
| Mechanical Load Test | 5400 Pa-Front; 2400 Pa-Back (as per IEC & UL) |
| Mounting Holes Pitch (Y)-mm | [A] 1400, [B] 1100, [C] 400 |
| Mounting Holes Pitch (X)-mm | 1095 |

Caution: Please read safety and installation instructions before using the product. *Warranty: Linear performance warranty for 30 years, with degradation up to 2% in 1st year and 0.45 %/year from year 2 to year 30. Please read Rayzon warranty documents thoroughly. Disclaimer: Specifications included in the datasheet are subject to change without prior notice owing to continuous innovation in the Product Development and R&D Activities. RAYZON SOLAR LTD. reserves the right to make any adjustment to the information described here. Dataset contained in this specification do not form a representative of a single module data. @T&C Apply.

MAXIMUM OPERATING CONDITIONS

| | |
|-----------------------------|----------------|
| Operating Temperature: | -40°C to +85°C |
| Maximum System Voltage: | 1500V |
| Maximum Series Fuse Rating: | 25 A |

TEMPERATURE COEFFICIENTS

| | |
|-------------------|-------------|
| Current α (Isc) : | 0.0286%/°C |
| Voltage β (Voc) : | -0.2488%/°C |
| Power γ (Pmax) : | -0.3290%/°C |

| STACKING STANDARD | 20FT | 40FT |
|-----------------------------------|-------------------------|------|
| No. of Modules per Container: | 155 | 620 |
| No. of Pallets per Container: | 05 | 20 |
| No. of Modules per Pallet/Weight: | 31 Nos/1070 Kg | |
| Pallet Dimensions in mm : | 2320(L)*1130(W)*1275(H) | |