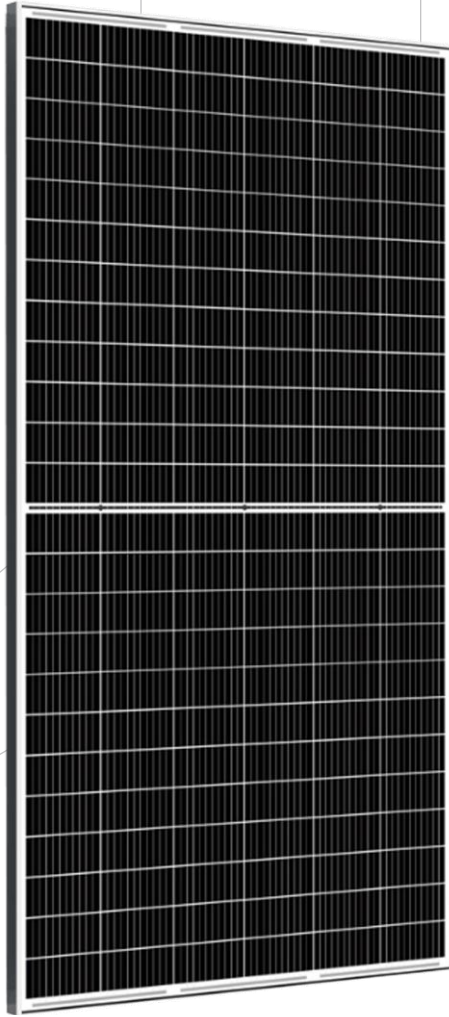


# RAYZON SOLAR

Own The Sun



\*Module image is for representation purpose only

## Solar Modules

L'LIOS 540 – 550 Wp  
MONO PERC 10BB

Bifacial

### PRODUCT | KEY FEATURES



Anti-Reflective (AR) Coated Glass for Enhanced Power



Excellent Module Efficiency with Bifacial Power Gain



Positive Power Tolerance with Current Binning to Prevent Mismatch Losses



Pre and Post EL Checking With High Resolution Camera



IP68 Junction Box for Long Term Endurance



100% Hi-Pot Testing to Ensure Safety



MBB Half-Cell Technology provides Better Performance under Partial Shading

### THE INDUSTRY'S BENCHMARK

Rayzon Solar is an internationally renowned leading solar energy cost effective befitting solutions provider having core competency in high efficiency PV module manufacturing and providing wide range EPC solutions. PV modules are the best in class in terms of power output and long-term reliability.

### PRODUCT CERTIFICATES



MADE IN INDIA



Linear Performance warranty\*



Product warranty on materials and workmanship\*\*

\*\*15 years product warranty for Dual Glass modules and 12 years product warranty for modules with transparent backsheets.

SOLAR

# TECHNICAL DATA – DUAL GLASS

ELECTRICAL PERFORMANCE [Note: Power tolerance: 0 ~ +4.99 W. Power measurement tolerance: < ±3%]

Model number	RS540WC		RS545WC		RS550WC	
	STC	NOCT	STC	NOCT	STC	NOCT
Nominal Maximum Power (Pmax)	540 W	400 W	545 W	403 W	550 W	407 W
Optimum Operating Voltage (Vmp)	41.86 V	38.54 V	42.01 V	38.68 V	42.14 V	38.80 V
Optimum Operating Current (Imp)	12.91 A	10.37 A	12.98 A	10.43 A	13.07 A	10.49 A
Open Circuit Voltage (Voc)	49.78 V	46.82 V	49.91 V	46.94 V	50.06 V	47.09 V
Short Circuit Current (Isc)	13.53 A	10.96 A	13.59 A	11.01 A	13.65 A	11.06 A
Module Efficiency (%)	20.94 %		21.13 %		21.32 %	

## BIFACIAL OUTPUT – BACKSIDE POWER GAIN @ STC\* [Bifaciality Factor: 70% ± 5%]

[Note: The bifacial gain depends on the power plant design and site conditions.]

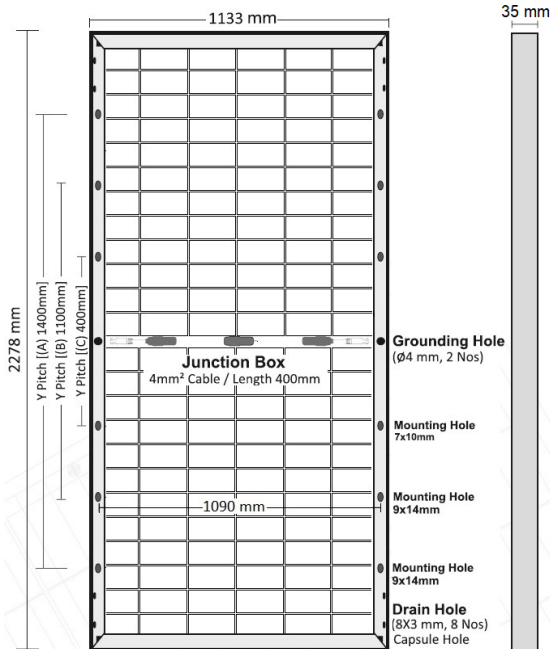
Gain %	Parameter	RS540WC	RS545WC	RS550WC
5 %	Nominal Maximum Power (Pmax)	567 W	573 W	578 W
	Module Efficiency (%)	21.99 %	22.18 %	22.39 %
10 %	Nominal Maximum Power (Pmax)	594 W	600 W	605 W
	Module Efficiency (%)	23.03 %	23.24 %	23.46 %
25 %	Nominal Maximum Power (Pmax)	676 W	682 W	688 W
	Module Efficiency (%)	26.17 %	26.41 %	26.65 %

## MECHANICAL SPECIFICATIONS

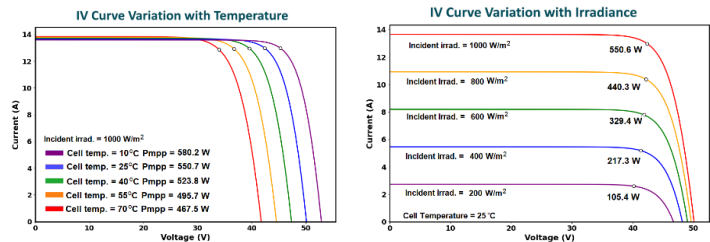
Dimensions (L x W x H in mm)	2278 x 1133 x 35
Weight (kg)	33
No. of Cells	144 Half-cut cells
Frame	Anodized Aluminum Alloy (6063, Temper T5, silver colour)
Front Cover	Low Iron Heat-strengthened AR coated Glass (2 mm thick)
Encapsulant	PID resistant and UV resistant polymeric film
Back Cover	Low Iron Heat-strengthened Glass (2 mm thick)
Junction Box	Split Junction Box (3 nos. with individual Bypass Diode) – Weatherproof (IP68)
Bypass Diode	50 A, 45 V, 200 °C max. junction temperature
Cables	4 sq. mm, 400 mm length (1200 mm available on request)
Connectors	MC4 compatible (MC4 original available on request)
Application Class Rating	Class A
Safety Class Rating	Class II
Mechanical Load Test (as per IEC & UL)	5400 Pa-Front; 2400 Pa-Back
Mounting Holes Pitch (Y)-mm	[A] 1400, [B] 1100, [C] 400
Mounting Holes Pitch (X)-mm	1090

### BACK VIEW

### SIDEVIEW

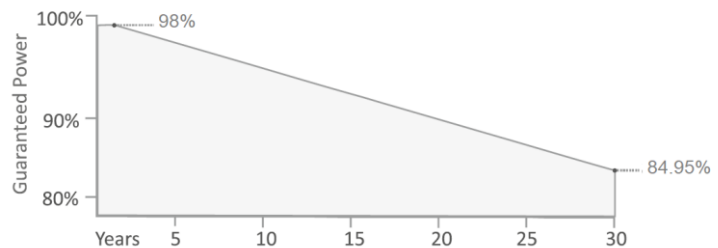


All dimensions are in mm with ±2 mm tolerance



\*I-V curves shown for front-side illumination of 550 Wp panel

## PERFORMANCE WARRANTY



\*Graphics shown herein above are for reference purpose only.

## MAXIMUM OPERATING CONDITIONS

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

## TEMPERATURE COEFFICIENTS

Current Temperature Coefficients α (Isc):	0.0271 %/°C
Voltage Temperature Coefficients β (Voc):	0.2355 %/°C
Power Temperature Coefficients Y (Pmax):	0.3164 %/°C

## STACKING STANDARD

No. of Modules per Container:	620
No. of Pallets per Container:	20
No. of Modules per Pallet/Weight:	31 Nos/ 1070 Kg
Pallet Dimensions:	2320*1130*1295

**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 linear power degradation rate of 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 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.

# TECHNICAL DATA – TRANSPARENT BACKSHEET

ELECTRICAL PERFORMANCE [Note: Power tolerance: 0 – +4.99 W. Power measurement tolerance: < ±3%]

Model number	RS540WC		RS545WC		RS550WC	
	STC	NOCT	STC	NOCT	STC	NOCT
Nominal Maximum Power (Pmax)	540 W	400 W	545 W	403 W	550 W	407 W
Optimum Operating Voltage (Vmp)	41.86 V	38.54 V	42.01 V	38.68 V	42.14 V	38.80 V
Optimum Operating Current (Imp)	12.91 A	10.37 A	12.98 A	10.43 A	13.07 A	10.49 A
Open Circuit Voltage (Voc)	49.78 V	46.82 V	49.91 V	46.94 V	50.06 V	47.09 V
Short Circuit Current (Isc)	13.53 A	10.96 A	13.59 A	11.01 A	13.65 A	11.06 A
Module Efficiency (%)	20.94 %		21.13 %		21.32 %	

## BIFACIAL OUTPUT – BACKSIDE POWER GAIN @ STC\* [Bifaciality Factor: 70% ± 5%]

[Note: The bifacial gain depends on the power plant design and site conditions.]

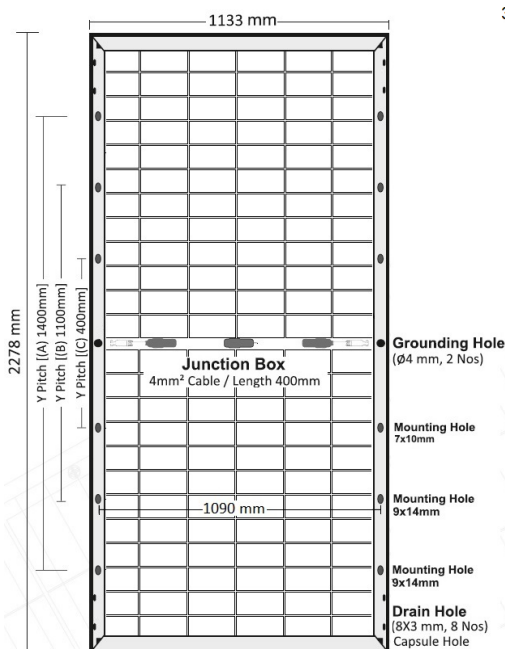
Bifacial Gain (%)	Nominal Maximum Power (Pmax)	RS540WC		RS545WC		RS550WC	
		STC	NOCT	STC	NOCT	STC	NOCT
5 %	Nominal Maximum Power (Pmax)	567 W		573 W		578 W	
	Module Efficiency (%)	21.99 %		22.18 %		22.39 %	
10 %	Nominal Maximum Power (Pmax)	594 W		600 W		605 W	
	Module Efficiency (%)	23.03 %		23.24 %		23.46 %	
25 %	Nominal Maximum Power (Pmax)	676 W		682 W		688 W	
	Module Efficiency (%)	26.17 %		26.41 %		26.65 %	

## MECHANICAL SPECIFICATIONS

Dimensions (L x W x H in mm)	2278 x 1133 x 35
Weight (kg)	28.6
No. of Cells	144 Half-cut cells
Frame	Anodized Aluminum Alloy (6063, Temper T5, silver color)
Front Cover	Low Iron Tempered Glass (3.2 mm thick)
Encapsulate	Ethylene Vinyl Acetate (EVA) - PID resistant and UV resistant
Back Cover	PVDF Fluoro-polymer based transparent backsheet
Junction Box	Split type (3 nos. with individual Bypass Diode) – Weatherproof (IP68)
Bypass Diode	50 A, 45 V, 200 °C max. junction temperature
Cables	4 sq. mm, 400 mm length (1200 mm available on request)
Connectors	MC4 compatible (MC4 original available on request)
Application Class Rating	Class A
Safety Class Rating	Class II
Mechanical Load Test (as per IEC & UL)	5400 Pa-Front; 2400 Pa-Back
Mounting Holes Pitch (Y)-mm	[A] 1400, [B] 1100, [C] 400
Mounting Holes Pitch (X)-mm	1090

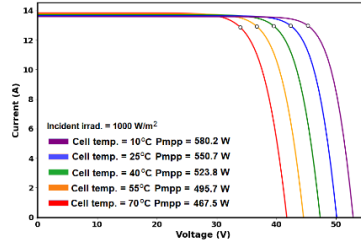
### BACK VIEW

### SIDEVIEW

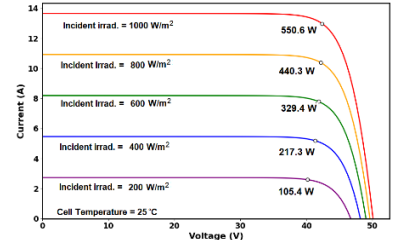


All dimensions are in mm with ±2 mm tolerance

### IV Curve Variation with Temperature

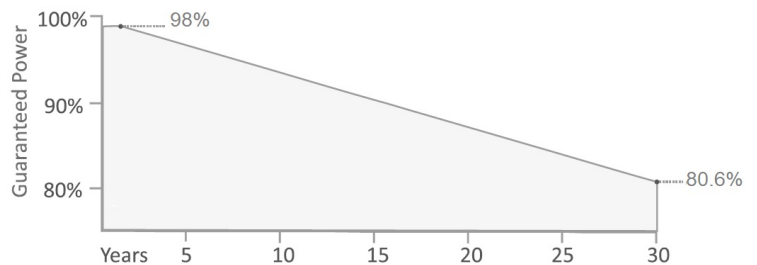


### IV Curve Variation with Irradiance



\*I-V curves shown for front-side illumination of 550 Wp panel

## PERFORMANCE WARRANTY



\*Graphics shown herein above are for reference purpose only.

MAXIMUM OPERATING CONDITIONS	TEMPERATURE COEFFICIENTS	STACKING STANDARD	40FT [HC]
Operating Temperature: -40°C to +85°C	Current Temperature Coefficients α (Isc): 0.0271 %/°C	No. of Modules per Container: 620	
Maximum System Voltage: 1500V	Voltage Temperature Coefficients β (Voc): 0.2355 %/°C	No. of Pallets per Container: 20	
Maximum Series Fuse Rating: 25A	Power Temperature Coefficients γ (Pmax): 0.3164 %/°C	No. of Modules per Pallet/Weight: 31 Nos/ 940 Kg	
		Pallet Dimensions: 2320* 1130* 1295	

**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 linear power degradation rate of 0.6%/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 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.