

## Solar Modules MONO PERC 10BB 540-550 W

Monofacial

### PRODUCT | KEY FEATURES

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AR Coated Tempered Glass  
Anti-Reflective Module Surface
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Excellent Module Efficiency  
with Mono PERC Cells
- 

Positive Power Tolerance  
Up to 5W
- 

Pre and Post EL Checking  
to ensure Defect Free Modules
- 

IP68 Junction Box  
for Long Term Endurance
- 

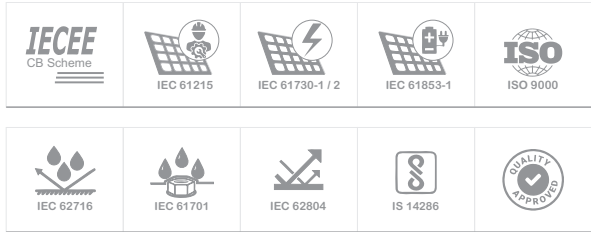
100% High Voltage Testing to  
Ensure Safety
- 

High Module Reliability using  
Multi Busbar Half-cut Cell Technology


### 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



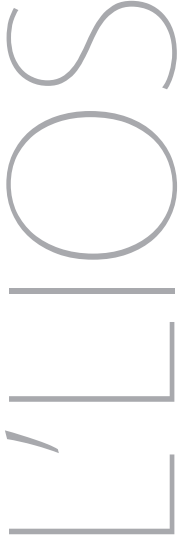
### MADE IN INDIA

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Industry leading linear power  
output warranty\*
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Product warranty on  
materials and workmanship

\*First year power degradation warranty is 2% and linear power warranty (0.6%/year) is applicable from year 2 to year 30



# TECHNICAL DATA

## PERFORMANCE UNDER STANDARD TEST CONDITIONS (STC) (irradiance of 1000 W/m<sup>2</sup>, spectrum AM 1.5 and cell temperature of 25°C.)

Model Number	RS540WC	RS545WC	RS550WC
Nominal Maximum Power (Pmax)	540W	545W	550W
Power Tolerance	<-----	0 ~ +5 W	----->
Optimum Operating Voltage (Vmp)	41.86 V	42.01 V	42.14 V
Optimum Operating Current (Imp)	12.91 A	12.98 A	13.07 A
Open Circuit Voltage (Voc)	49.78 V	49.91 V	50.06 V
Short Circuit Current (Isc)	13.53 A	13.59 A	13.65 A
Module Efficiency	20.94 %	21.13 %	21.32 %
Fill Factor	80.24 %	80.39 %	80.54 %

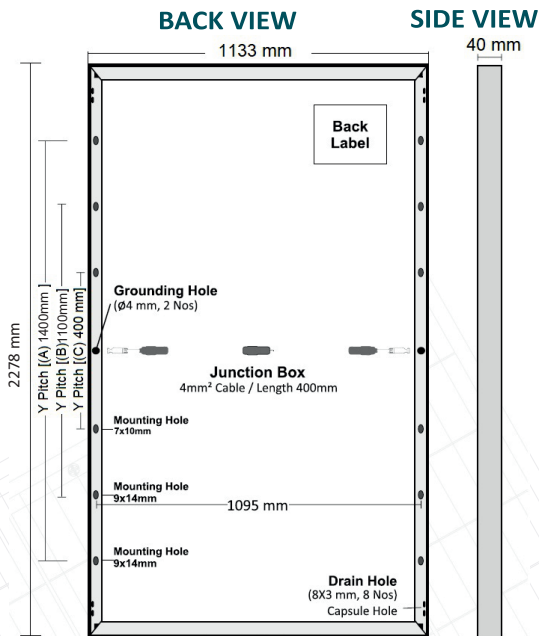
Note: Power measurement uncertainty: <±3%

## PERFORMANCE UNDER NOCT (NOCT irradiances of 800 W/m<sup>2</sup>, ambient temperature of 20°C, Wind speed 1m/s, Average NOCT = 45.25°C)

Maximum Power (Pmax)	400 W	403W	407 W
Optimum Operating Voltage (Vmp)	38.54 V	38.68 V	38.80 V
Optimum Operating Current (Imp)	10.37 V	10.43 V	10.49 V
Open Circuit Voltage (Voc)	46.82 V	46.94 V	47.09 V
Short Circuit Current (Isc)	10.96 A	11.01 A	11.06 A

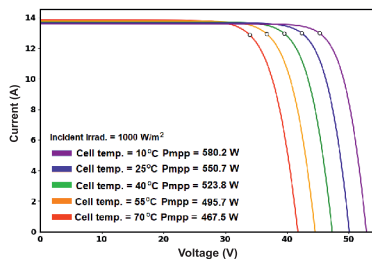
## Mechanical Specifications

Dimensions (L x W x T in mm)	2278 x 1133 x 40
Weight (Kg)	28.6
No Of Cell	144 [12 x 6 / 12 x 6 ]
Frame	Silver Anodized Aluminum Alloy (6063, Temper T5, silver colour)
Front Cover	ARC coated Low Iron Tempered Glass (3.2 mm thick )
Encapsulate	Ethylene Vinyl Acetate (EVA) Sheet - PID free and UV resistant
Back Sheet	Fluro-polymer based Composite Film
Junction Box	Split Junction Box (3 nos with Bypass Diode) - Weatherproof (IP68), MC4 Compatible
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	1095

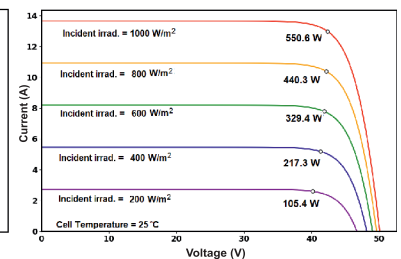


\*All dimensions are in mm with ± 2 mm tolerance

## IV Curve Variation with Temperature\*

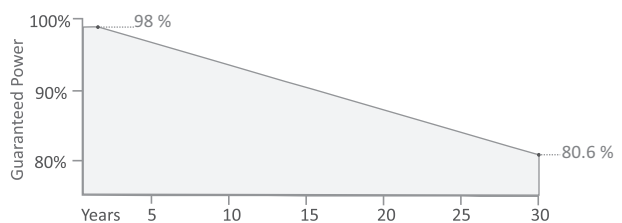


## IV Curve Variation with Irradiance\*



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

## LINEAR PERFORMANCE WARRANTY



graphics shown here in above are 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 α(Isc) :	0.0271 %/ C
Voltage β(Voc) :	-0.2355 %/ C
Power γ(Pmax) :	-0.3164 %/ C

## STACKING STANDARD

	19FT	32FT
No. of Modules	192 Nos	432Nos
No of Pallets	8 Pallets	16 Pallets
Modules per Pallet / Weight	24 Nos/730 Kgs.	27 Nos/820 Kgs.
Pallet dimensions	2320*1000*1275	2320*1130*1275

**Caution:** Please read safety and installation instructions before using the product. **\*Warranty:** Linear power warranty for 30 years, with degradation up to 2% in 1st year and 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 conditions innovation on 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.