

## Solar Modules MONO PERC 10BB 535W - 550W

### PRODUCT | KEY FEATURES

-  AR Coated Tempered Glass  
Anti-Reflective Module Surface
-  Excellent Weak Light Performance
-  Positive Power Tolerance  
Up to 5W
-  100% Pre and Post EL
-  IP68 Junction Box  
for Long Term Endurance
-  Ensure safety parameters  
through Safety test
-  Quality and Reliability assurance  
in standard weather condition

### 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. Our PV modules are the best in class in terms of power output and long-term reliability.

### PRODUCT CERTIFICATES

 IECEE CB Scheme	 IEC 61215 Design Qualification	 IEC 61730-1 / 2 Safety Qualification	 IS 14286 BIS Qualification	 Quality Approved
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 ISO 9000 Certified Mfg. Process	 ISO 14000 Environmental Mgt. System	 M10 - Cell	 Split type - JB	 Better Performance
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### MADE IN INDIA

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

# TECHNICAL DATA

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

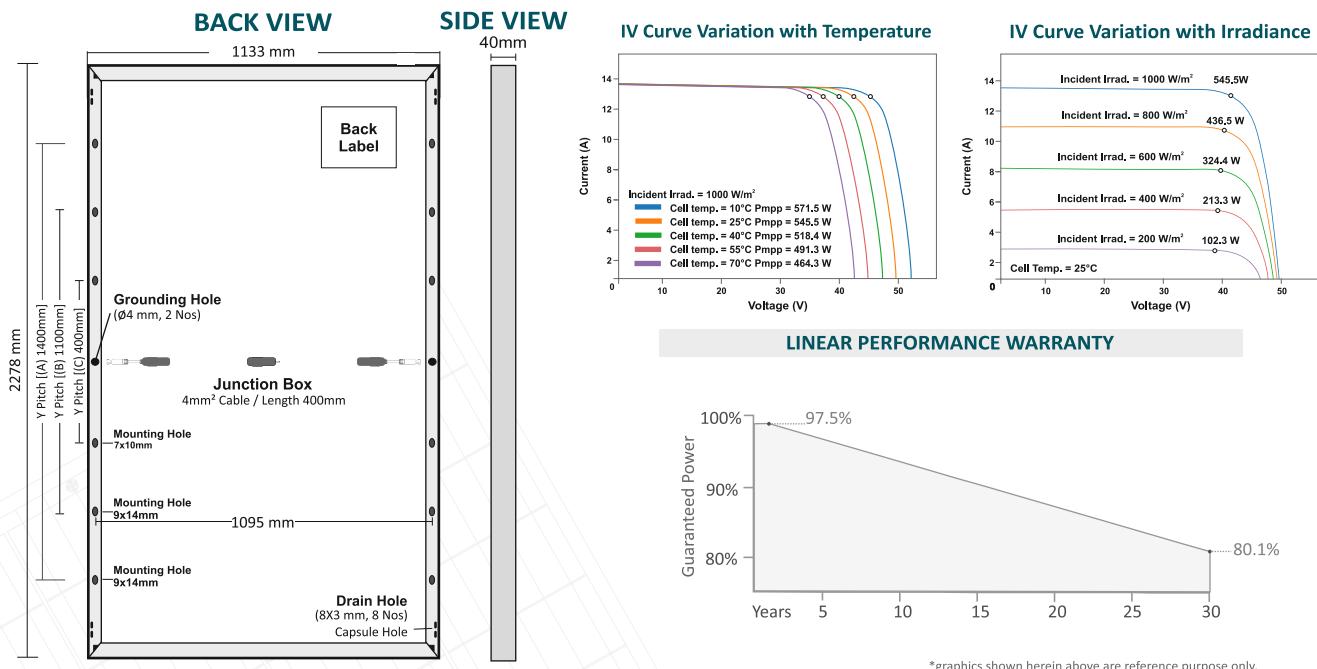
	535W	540W	545W	550W
Nominal Maximum Power (Pmax)				
Optimum Operating Voltage (Vmp)	41.73	42.07	42.45	42.79
Optimum Operating Current (Imp)	12.83	12.84	12.85	12.86
Open Circuit Voltage (Voc)	49.15	49.34	49.45	49.75
Short Circuit Current (Isc)	13.49	13.5	13.51	13.53
Module Eff(%)	20.74	20.94	21.1	21.32

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

	396.03	399.57	403.49	407.04
Maximum Power (Pmax)				
Optimum Operating Voltage (Vmp)	38.42	38.74	39.09	39.40
Optimum Operating Current (Imp)	10.31	10.31	10.32	10.33
Open Circuit Voltage (Voc)	46.23	46.41	46.51	46.79
Short Circuit Current (Isc)	10.93	10.94	10.94	10.96

## Mechanical Specifications

Dimensions (L x W x T in mm)	2278 x 1133 x 40
Weight(kg)	28.6
No Of Cells	144 [12x6 / 12x6]
Frame	Anodized Aluminum Alloy (6063, Temper T5, Silver Color)
Front Cover	Low Iron Tempered Glass (3.2 mm thick)
Encapsulant	Ethylene-vinyl Acetate (EVA) - PID free and UV resistant
Back Cover	Fluoro-polymer based composite film
Junction Box / Connector rating/Type	Split Junction Box (IP68) - Weatherproof / MC4 compatible
Cable Cross - Section & Length	4mm <sup>2</sup> & 400mm
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 mm [B] 1100 mm [C] 400 mm
Mounting Holes Pitch (X)-mm	1095mm



\*All dimensions are in mm with +/-1% tolerance.

\*graphics shown herein above are reference purpose only.  
Please consult Rayzon Solar Technical Team for any further clarification.

MAXIMUM OPERATING CONDITIONS	TEMPERATURE COEFFICIENTS	STACKING STANDARD	19FT	32FT
Operating Temperature: -40°C to +85°C	Current α(Isc) : 0.0305%/C	No. of Modules	192 Nos	432 Nos
Maximum System Voltage: 1500V	Voltage β(Voc) : -0.2427%/C	No. of Pallets	8 Pallets	16 Pallets
Maximum Series Fuse Rating: 25A	Power γ(Pmax) : -0.3308%/C	Modules per Pallet / Weight	24 Nos / 700 Kgs.	27 Nos / 800 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 up to 2.5% for 1st year degradation and 0.60%/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 GREEN ENERGIES 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.