

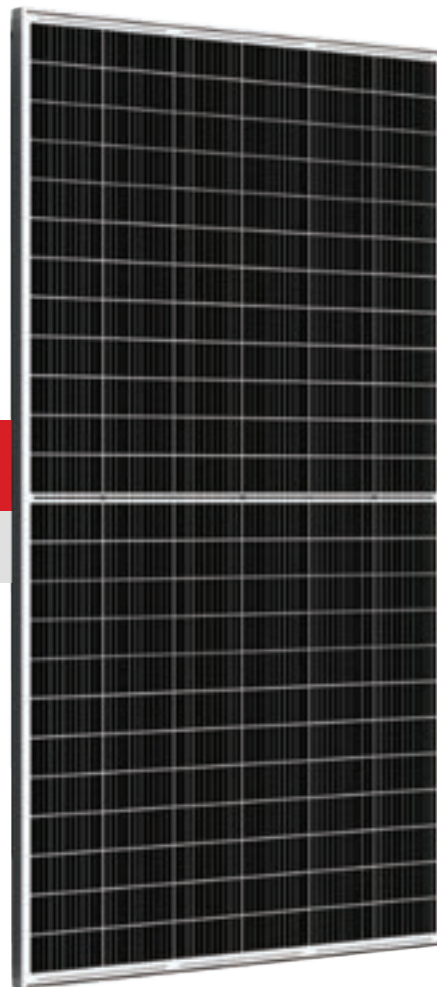
# Solar Modules

## MONO PERC 10BB





L'LIOS 540 - 555 Wp

BIFACIAL (Transparent )

- Better performance under low light & high temperature.
- Lower temperature coefficient.
- Ideal for : Commercial, Residential, Industrial and Institutional Projects.



### PRODUCT CERTIFICATES

 IS 14286 BIS Qualification	 IECEE CB Scheme IEC CB Scheme	 IEC 61215 Design Qualification	 IEC 61730-1 / 2 Safety Qualification	 European Conformity
 ISO 9000 Certified Mfg. Process	 ISO 14000 Environmental Mgt. System	 ISO 45001 Health & Safety Mgt. System	 Bankable Product	 Reinsured by AerialR

MADE IN INDIA

**30**  
YEARS Linear Performance warranty\*

**15**  
YEARS Product warranty on materials and workmanship\*\*

### PRODUCT | KEY FEATURES



Anti-Reflective (AR) Coated  
Glass for Enhanced Power



22% Plus 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  
Long Term Endurance



100% Hi-Pot Testing to  
Ensure Safety



MBB Half-cut Cell Technology  
provides Better Performance  
under Partial Shading

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

ELECTRICAL CHARACTERISTICS*	RSB540WC		RSB545WC		RSB550WC		RSB555WC	
	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 %	

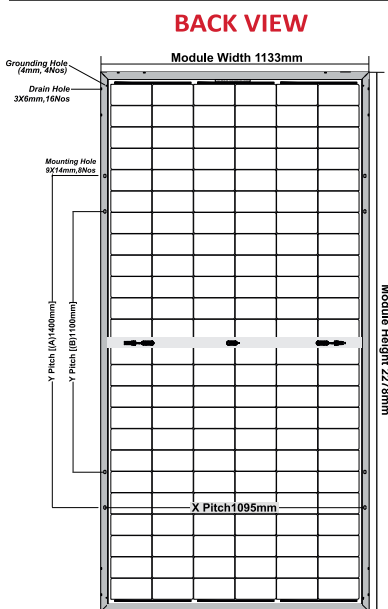
### BIFACIAL OUTPUT – BACKSIDE POWER GAIN @ STC\* [Bifaciality Factor: 75% ± 10%]

[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

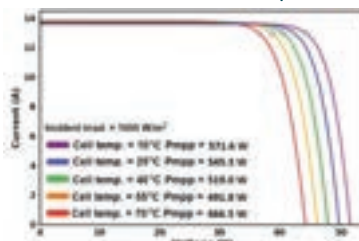
Dimensions (L x W x T in mm)	2278 x 1133 x 40
Weight(kg)	28.6
Cell type / No Of Cell	144 Half-cut Mono PERC Bifacial Solar cells
Frame	Anodized Aluminum Alloy (6005, Temper T6, Silver colour)
Front Cover	ARC coated Low Iron Tempered Glass (3.2 mm thick)
Encapsulate	Ethylene Vinyl Acetate (EVA) - PID resistant and UV resistant
Back Cover	Corona treated PVDF Fluoro-polymer based transparent Backsheet
Junction Box	Split type (3 nos. with individual Bypass Diode) – Weatherproof (IP68)
Bypass Diode	40 A, 45 V, 200 °C max. junction temperature
Cable	4 sq. mm, 400 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 (as per IEC & UL)	5400 Pa-Front; 2400 Pa-Back
Mounting Holes Pitch (Y)-mm	[A] 1400, [B] 1100
Mounting Holes Pitch (X)-mm	1095



### SIDE VIEW



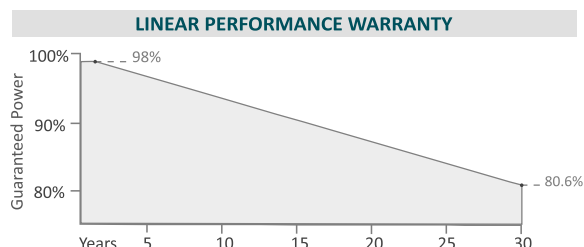
### IV Curve Variation with Temperature



### IV Curve Variation with Irradiance



### IV Curves for Front-Side Illumination of 545Wp Panel



\*All dimensions are in mm with +/- 2mm 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	40FT
Operating Temperature: -40°C to +85°C	Current α(Isc) : 0.0284%/°C	No. of Modules per Container:	192	384	528
Maximum System Voltage: 1500V	Voltage β(Voc) : -0.2444%/°C	No. of Pallets per Container:	08	16	22
Maximum Series Fuse Rating: 25 A	Power γ(Pmax) : -0.3210%/°C	No. of Modules per Pallet/Weight:	24 Nos/730 Kg		
		Pallet Dimensions:	2320*1000*1275		

**Caution:** Please read safety and installation instructions before using the product. **\*Warranty:** Linear performance warranty for 30 years, with degradation up to 1% in 1st year and 0.4 %/year from year 2 to year 30. Please read Mahindra 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. Mahindra Solarize 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.