


Solar Modules MONO PERC 10BB L'LIOS BLACK | 445 - 455 Wp

PRODUCT | KEY FEATURES

-  Anti-Reflective (AR) Coated Glass Anti-Reflective Surface
-  Excellent Module Efficiency with Mono PERC cells Through 100% Automation
-  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% High Voltage 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 EPC solution. Rayzon PV modules are the best in class in terms of power output and long-term reliability.

PRODUCT CERTIFICATES*



MADE IN INDIA

-  30 YEARS Linear Performance warranty*
-  12 YEARS Product warranty on materials and workmanship

L'LIOS (Black)

TECHNICAL DATA

PERFORMANCE UNDER STANDARD TEST CONDITIONS (STC) (irradiance of 1000 W/m², spectrum AM 1.5G and cell temperature of 25°C.)

Model Number	RSB445WC	RSB450WC	RSB455WC
Nominal Maximum Power (Pmax)	445 W	450 W	455 W
Power Tolerance	0 to +4.99 W	0 to +4.99 W	0 to +4.99 W
Optimum Operating Voltage (Vmp)	35.28 V	35.52 V	35.75 V
Optimum Operating Current (Imp)	12.62 A	12.69 A	12.75 A
Open Circuit Voltage (Voc)	41.07 V	41.27 V	41.47 V
Short Circuit Current (Isc)	13.24 A	13.30 A	13.36 A
Module Efficiency	20.55 %	20.80 %	21.04 %
Fill Factor	81.91 %	82.11 %	82.27 %

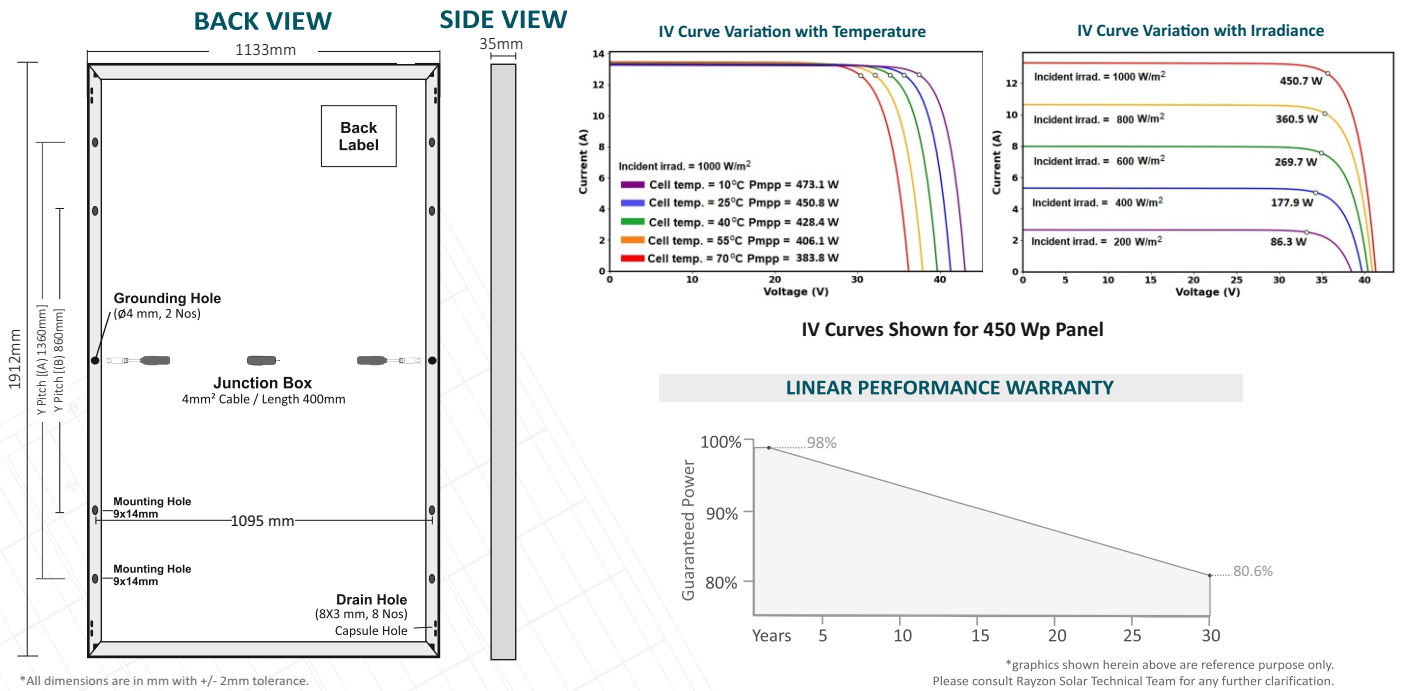
Note: Power Measurement uncertainty: < ±3%

PERFORMANCE UNDER NOCT (NOCT = 45.25°C irradiance of 800 W/m², ambient temperature of 20°C and Wind speed 1 m/s)

Maximum Power (Pmax)	329 W	333 W	337 W
Optimum Operating Voltage (Vmp)	32.48 V	32.70 V	32.92 V
Optimum Operating Current (Imp)	10.14 A	10.19 A	10.24 A
Open Circuit Voltage (Voc)	38.63 V	38.82 V	39.01 V
Short Circuit Current (Isc)	10.72 A	10.77 A	10.82 A

Mechanical Specifications

Dimensions (L x W x T in mm)	1912 x 1133 x 35
Weight(kg)	23.9
Cell type / No Of Cell	120 Half-cut Mono PERC Solar cells
Frame	Anodized Aluminum Alloy (6005, Temper T6, Black colour)
Front Cover	ARC coated Low Iron Tempered Glass (3.2 mm thick)
Encapsulate	Ethylene Vinyl Acetate (EVA) Sheet - PID resistant and UV resistant
Back Cover	Plasma Treated Fluoro-Based polymeric Backsheet (Black colour)
Junction Box	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, 400 mm length (Customized 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] 1360, [B] 860
Mounting Holes Pitch (X)-mm	1095



MAXIMUM OPERATING CONDITIONS	TEMPERATURE COEFFICIENTS	STACKING STANDARD	20FT	40FT
Operating Temperature: -40°C to +85°C	Current α(Isc) : 0.0297%/°C	No. of Modules	155	682
Maximum System Voltage: 1500V	Voltage β(Voc) : -0.2470%/°C	No of Pallets	5	22
Maximum Series Fuse Rating: 25A	Power γ(Pmax) : -0.3303%/°C	Modules per Pallet / Weight	31Nos/790Kg	31Nos/790Kg
		Pallet dimensions	1950*1130*1275	1950*1130*1275

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 0.6 %/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.