



AR coated Tempered Glass Anti-Reflective Module 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% Hi-Pot Testing to Ensure Safety



MBB Half-Cell Technology provides Better Performance under Partial Shading



## Solar Modules MONO PERC 10BB S4WD 450 - 460 Wp

Bifacial (Dual Glass with Silver Frame)

Solar4WD is a renowned distributor and supplier of highquality and cost-effective solar energy solutions. With expertise in sourcing and supplying top-grade PV modules and a comprehensive range of solar products, we specialize in delivering reliable and efficient solar solutions to our clients. Our focus is on providing exceptional customer service and ensuring that our customers have access to the best solar products in the market. With Solar4WD as your trusted distributor and supplier, you can rely on us for all your solar energy needs.

## Product Code:

- S4B450SPX
- S4B455BPX
- S4B460BPX



Linear Performance warranty\*



Product warranty on materials and workmanship

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## TECHNICAL DATA

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

ELECTRICAL CHARACTERISTICS*	S4B450SPX	S4B455SPX	S4B460SPX
	STC NOCT	STC NOCT	STC NOCT
Nominal Maximum Power (Pmax)	450 W 334 W	455 W 337 W	460 W341 W
Optimum Operating Voltage (Vmp)	35.06 V32.28 V	35.37 V32.56 V	35.67 V32.84 V
Optimum Operating Current (Imp)	12.86 A10.33 A	12.89 A10.35 A	12.92 A10.38 A
Open Circuit Voltage (Voc)	41.18 V38.73 V	41.43 V38.97 V	41.66 V39.18 V
Short Ciruit Current (Isc)	13.54 A10.97 A	13.57 A10.99 A	13.61 A11.03 A
Module Efficiency	20.81 %	21.03 %	21.27 %

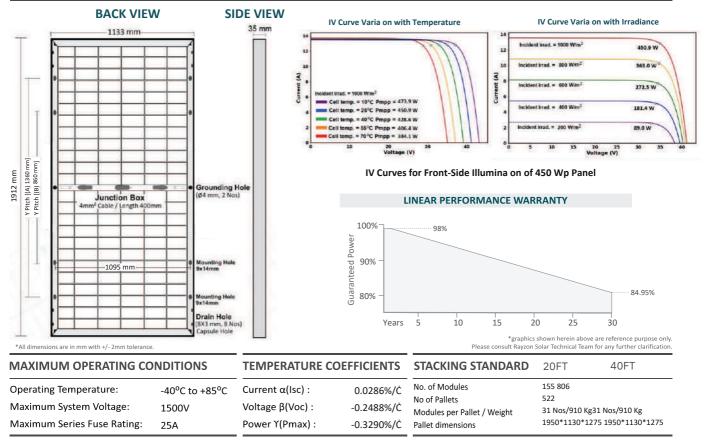
BIFACIAL OUTPUT – BACKSIDE POWER GAIN @ STC\* [Bifaciality Factor: 75% ± 10%]

[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)]

50/	Nominal Maximum Power (Pmax)	473 W	478 W	484 W
5%	Module Short Circuit Current / Efficiency	14.22 A / 21.86 %	14.25 A / 22.07 %	14.29 A / 22.36 %
10%	Nominal Maximum Power (Pmax)	496 W	501 W	507 W
10%	Module Short Circuit Current / Efficiency	14.89 A / 22.90 %	14.93 A / 23.13 %	14.97 A / 23.42 %
	Nominal Maximum Power (Pmax)	564 W	570 W	577 W
25%	Module Short Circuit Current / Efficiency	16.93 A / 26.02 %	16.96 A / 26.28 %	17.01 A / 26.61 %

Mechanical Specifications

Dimensions (L x W x T in mm)	1912 x 1133 x 35		
Weight(kg)	27.7		
Cell type / No Of Cell	120 Half-cut Mono PERC Bifacial Solar cells		
Frame	Anodized Aluminum Alloy (6005, Temper T6, Silver colour)		
Front Cover	Low Iron Heat-strengthened AR coated Glass (2 mm thick)		
Encapsulate	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		
Bypass Diode	(IP68) 50 A, 45 V, 200 °C max. junction temperature		
Cable	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 &	5400 Pa-Front; 2400 Pa-Back		
UL) Mounting Holes Pitch (Y)-mm	[A] 1360, [B] 860		
Mounting Holes Pitch (X)-mm	1095		



**Cau on:** 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 Solar4WD 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. Solar4WD 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.

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