

MADE
IN
INDIA

SUNBND
Energy Pvt Ltd

PACiFiC+
SERIES



12
YEARS

12 Years Product
Warranty
On Materials And
Workmanship*

25
YEARS

25 Years Warranty
for Linear
Performance*

P-TYPE PERC 10BB

490 Wp - 515 Wp

BIFACIAL (GLASS TO BACK SHEET)



Extra Power/High Saving



Extra Life With Up to
20% Additional Power



AR Coated Glass
For Enhanced Power



Excellent anti-LeTID
& anti-PID performance



Lower LCOE
& system cost



Double-Sided
Power Generation



IEC

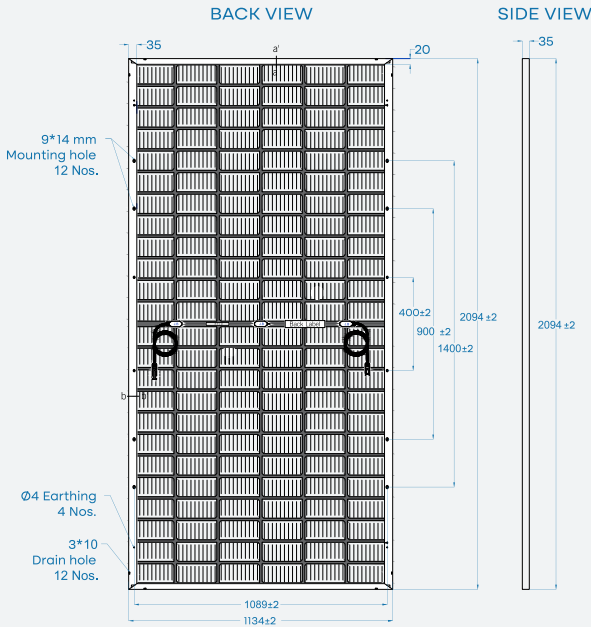
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LISTED

PRODUCT | CERTIFICATES

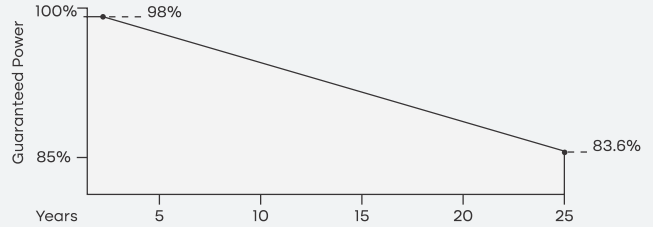
IS 14286, IEC: 61215, 61730-1 & 11, 62804, 61701
Quality Management System: ISO 9001:2015
Environment Management System: ISO 14001: 2015
Occupational Health and Safety: ISO 45001:2018

TECHNICAL DATA

ELECTRICAL CHARACTERISTICS*	SEPLM10B132-490		SEPLM10B132-495		SEPLM10B132-500		SEPLM10B132-505		SEPLM10B132-510		SEPLM10B132-515	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Nominal Maximum Power - Pmax(Wp)	490	366	495	369	500	373	505	376	510	380	515	384
Optimum Operating Voltage- Vmp	38.31	35.35	38.44	35.47	38.57	35.59	38.70	35.71	38.83	35.83	38.96	35.95
Optimum Operating Current- Imp(A)	12.80	10.34	12.88	10.40	12.97	10.48	13.05	10.54	13.14	10.61	13.22	10.68
Open Circuit Voltage- Voc	45.80	42.27	45.93	42.39	46.06	42.51	46.19	42.63	46.32	42.75	46.45	42.87
Short Circuit Current- Isc(A)	13.57	11.0	13.62	11.0	13.67	11.0	13.72	11.1	13.77	11.1	13.82	11.2
Module Efficiency (%)	20.7		20.9		21.1		21.3		21.5		21.7	

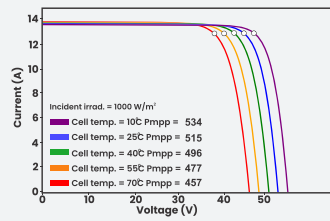


LINEAR PERFORMANCE WARRANTY

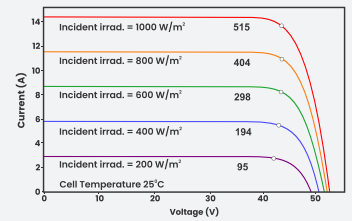


12 Year Mfg. Warranty, 25 Years Performance Warranty

IV Curve Variation with Temperature



IV Curve Variation with Irradiance



IV Curves for Front-Side Illumination of 515 Wp Panel

BIFACIAL OUTPUT – BACKSIDE POWER GAIN @ STC* [Bifaciality Factor: 70% ± 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%	Capacity rating - Pmax(Wp)	515	520	525	530	535	541
	Rated Voltage - Vmp(V)	38.31	38.44	38.57	38.70	38.83	38.96
	Rated Current - Imp(A)	13.44	13.52	13.62	13.70	13.79	13.89
	Open Circuit Voltage - Voc(V)	45.80	45.93	46.06	46.19	46.32	46.45
	Short Circuit Current - Isc(A)	14.24	14.30	14.35	14.40	14.45	14.51
	Module Efficiency (%)	21.7	21.9	22.1	22.3	22.5	22.8
10%	Capacity rating - Pmax(Wp)	539	545	550	556	561	567
	Rated Voltage - Vmp(V)	38.31	38.44	38.57	38.70	38.83	38.96
	Rated Current - Imp(A)	14.08	14.17	14.27	14.36	14.45	14.54
	Open Circuit Voltage - Voc(V)	45.80	45.93	46.06	46.19	46.32	46.45
	Short Circuit Current - Isc(A)	14.93	14.98	15.04	15.09	15.15	15.20
	Module Efficiency (%)	22.7	22.9	23.2	23.4	23.6	23.9

MECHANICAL SPECIFICATIONS

Dimensions	2094(L) x 1134(W) x 35(T)
Weight(kg)	25kg
Cell type / No Of Cell	(91mm x 182mm) 132 Half-cut P-type MONO PERC Bifacial solar cells
Frame	Anodized Aluminum Alloy (6005, Temper T6, Silver colour)
Front Cover	Low Iron semi-Tempered AR coated Glass (3.2 mm thick)
Encapsulate	PID resistant and UV resistant Polymeric Film
Back Cover	PVDF base UV protected backsheet
Junction Box	25A Split Junction Box (3 nos. with individual Bypass Diode) – Weatherproof (IP68)
Bypass Diode	60 A, 45 V, 200 °C max. junction temperature
Cable	4 sq. mm, 300 mm length (Customised cable length available on request)
Connectors	Mc4 Type
Application Class Rating	Class A
Safety Class Rating	Class II
Mechanical Load Test	5400 Pa-Front; 2400 Pa-Back (as per IEC & UL)
Mounting Holes Pitch (Y)-mm	[A] 1400, [B] 900, (Holes at 400 mm Y-pitch for tracker can be provided on customer request)
Mounting Holes Pitch (X)-mm	1089

MAXIMUM OPERATING CONDITIONS

Operating Temperature:	-40°C to +85°C
Maximum System Voltage:	1500V
Maximum Series Fuse Rating:	25A

TEMPERATURE COEFFICIENTS

Current α (Isc) :	0.0482%/°C
Voltage β (Voc) :	-0.2917%/°C
Power γ (Pmax) :	-0.3425%/°C

PACKING STANDARD

	19FT	20FT	40FT
No. of Modules per Container:	280	280	616
No. of Pallets per Container:	10	10	22
No. of Modules per Pallet/Weight:	25 Nos/740 Kg		
Pallet Dimensions in mm:	2100(L)*1000(W)*1280(H)		

ELECTRICAL PERFORMANCE [Note: Power tolerance: 0 ~ +4.99 W. Power measurement uncertainty: < ±3%. Average value of NOCT: 45.00 ± 2 °C]

Caution: Please read safety and installation instructions before using the product. *Warranty: Linear performance warranty for 25 years, with degradation up to 2% in 1st year and 0.60 %/year from year 2 to year 25. Please read SUNBOND 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. SUNBOND ENERGY PVT.LTD. 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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