

132 CELL BIFACIAL

MONO PERC - MODULE

495-510WP



High Efficiency



Bifaciality Factor



Quality and Reliability



NDC



Rigorous Testing Criteria



Tough Build



132 Half Cell



Weight 27 KG



Up to +4.99 Wp
Positive Tolerance

Module Certified :

- ALMM
- IS 14286 : 2010 / IEC 61215 : 2005
- IS / IEC 61730 (Part 1 & 2) : 2004
- IEC 61701 (SALT MIST)
- IEC 62804 (PID)
- IEC 61853
- ISO (9001 : 2015) , (14001 : 2015)
- Make in India

Cell Type
M10 Half Cut

Efficiency
21.49 %

Product Warranty
12 Years

PERFORMANCE
WARRANTY
27 Years

10BB



IP68 - Split Junction Box



www.jointsolar.in

High Quality Solar PV Modules Manufacturing



info@jointsolar.in
By Easy Photovoltaic Pvt. Ltd.

ELECTRICAL CHARACTERISTICS (STC) :

Module Type		JSD -24495	JSD -24500	JSD -24505	JSD -24510
Maximum Power (Pmp)	WP	495	500	505	510
Open Circuit Voltage (Voc)	V	45.36	45.70	45.90	46.10
Short Circuit Current (Isc)	A	13.69	13.72	13.82	13.92
Maximum Power Voltage (Vmp)	V	38.50	38.55	38.58	38.62
Maximum Power Current (Imp)	A	12.86	12.97	13.09	13.21
Module Efficiency (nm)	%	20.86	21.07	21.28	21.49
Fill Factor		79.71	79.75	79.81	79.88
Power Tolerance		(- 0 + 5 W upto)			
Maximum System Voltage		1500 VDC			
Maximum Series Fuse Rating		25A			

- Under Standard Test Conditions (STC) of irradiance 1000 W/m², spectrum AM 1.5 and cell temperature of 25°C.
- Except Pmax other parameters have a tolerance of $\pm 3\%$,

BIFACIAL OUTPUT-REAR SIDE POWER GAIN :

5 %	Maximum Power (Pmp)	519.75	525	530.25	535.5
	Module Efficiency STC (%)	21.90	22.12	22.34	22.56
15 %	Maximum Power (Pmp)	569.25	575	580.75	586.5
	Module Efficiency STC (%)	23.98	24.02	24.47	24.77
25 %	Maximum Power (Pmp)	618.75	625	631.25	637.5
	Module Efficiency STC (%)	26.075	26.33	26.6	26.86

- Additional Power Gain from rear side is depends on albedo. (Higher albedo, the higher power gain.)

ELECTRICAL PARAMETER AT NOCT :

Power (W)	368.28	372	375.72	379.44
VMP (V)	35.44	35.51	35.57	35.62
Imp (A)	10.39	10.48	10.56	10.65
Voc (V)	41.91	41.93	42.31	42.50
Isc (A)	10.99	11.06	11.15	11.25

- NOCT irradiance 800 W/m², ambient temperature 20°C, wind speed 1 m/sec

PACKING DETAILS :

DETAILS	DOMESTIC		EXPORT		
Truck / Container	19FT	22FT	40FT	20' HQ	40'HQ
Pieces Per Pallet	28	28	28	31	31
Pallets Per Truck / Container	8	12	22	8	18
Total No. of Panel	224	336	616	248	558

WARRANTY :

Product warranty	12 years
Performance warranty	27 years Linear Power Warranty for with 2% for 1st Year degradation and 0.55% from year 2 to year 27

*applicable only when module installation done as per joint solar installation manual

**The specifications and key features contained in this datasheet may deviate slightly from our actual products due to the ongoing innovation and product enhancement, joint Solar reserves the right to make necessary adjustment to the information described herein at any time without further notice.

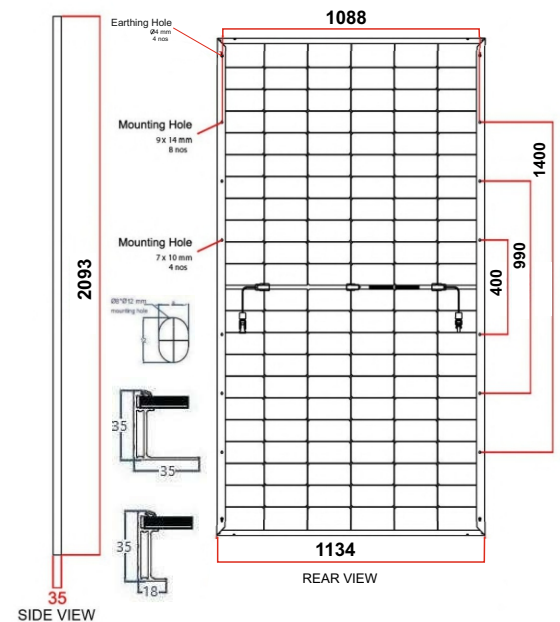
MECHANICAL SPECIFICATION

Specification	Details
Solar cells	Monocrystalline Silicon(PERC), MBB Non DCR and DCR - 132 cells
Encapsulation	Ultra Clear PID free EVA (Ethylene-Vinyl-Acetate)
Back sheet	UV protected Transparent back sheet
Frame	Anodized Aluminium Alloy, T6 6063 Grade
Front glass	3.2 mm, High Transmittance, ARC Tempered Glass
Dimensions	(L) 2093mm * (W) 1134mm * (H) 35mm
Weight	27 kg
Junction box	IP 68 certified split JB with 25A by pass diodes
Cable	4.0 mm ² (-) 350mm and (+) 350 mm in Length
Connectors	Compatible with MC4 connectors
Application Class	Class A
Electrical Safety	Class II
Fire Safety	Class C (Type 1)
Surface load	Snow load 5400 Pa, wind load 2400 Pa

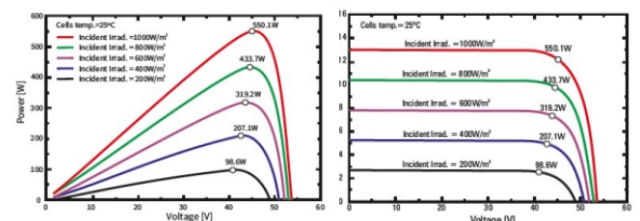
TEMPERATURE CHARACTERISTICS :

Pmax Temperature Coefficient	- 0.32% / °C
Voc Temperature Coefficient	- 0.25% / °C
ISC Temperature Coefficient	+ 0.05% / °C
Operating Temperature	- 40°C To + 85°C
Nominal Operating Cell Temperature	45 $\pm$ 2 °C

DRAWING (MEASUREMENT ARE IN MM) :



IV CRUVE :



IV Curve Variation with irradiance

IV Curve Variation with Temperature

Corporate Office :

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