

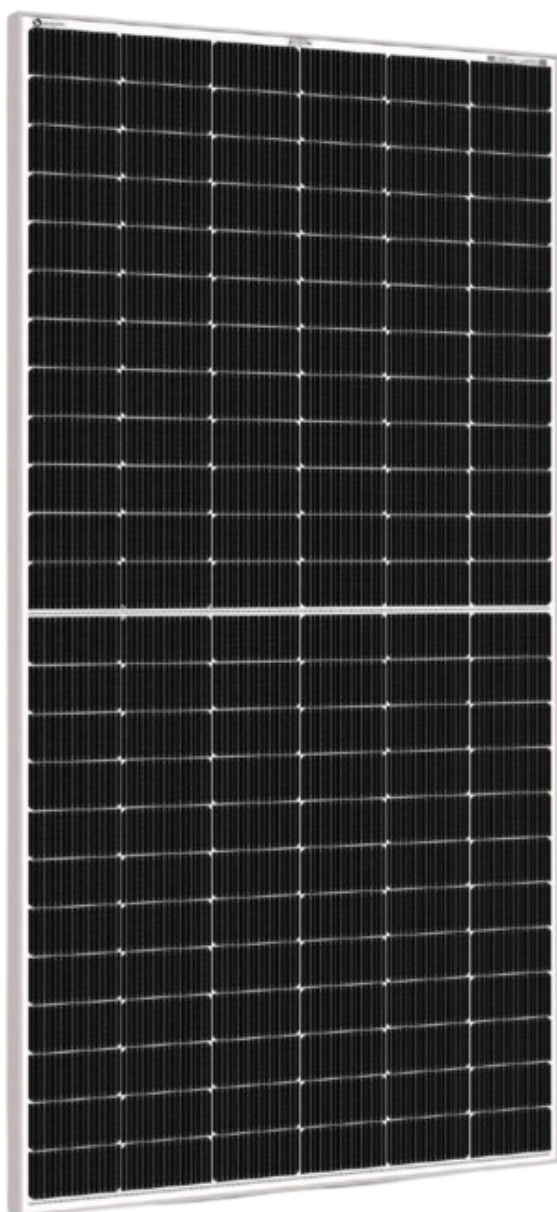
144 Cells N-Type TOPCON

J S D - 1 4 4 2 4

TOPCON BIFACIAL

(Glass to Glass - Half cut PV Module)

570-600WP



Max Module Efficiency 23.24 %	Positive Tolerance Upto+4.99WP
Product & Workmanship Warranty 12 Years	Linear Power Output Warranty 30 Years
 144 Half Cell	 Weight 32 KG

16BB



Bi-Facial Power Gain

Upto 30% power gain depending on the installation & albedo of the reflecting surface.



MBB Cell Technology

Lower conversion loss, better partial shade performance, improved light absorption and reduced cell stress.



Round Ribbons

Cylindrical tabbing wires to reduce shadow on active area of the cell and increase light absorption.



Reduced Degradation

Lower Light-Induced Degradation (LID) & Light and Elevated Temperature-Induced Degradation (LeTID) degradation.



Lower Thermal Co-efficients

Better Temperature Co-efficients resulting in higher power generation in high ambient temperatures.



0% Microcracks & Hotspots

PRE & POST Electroluminescence checks to ensure defect free modules.



High Profitability

Reduced BOS cost resulting in more savings, lower LCOE & shorter payback period.



ARC Glass

Highly Reliable AR Coated, Anti-Reflective Module surface for more light absorption.

Module Certification

- ALMM
- IS 14286 (BIS) / IEC61215/ IEC 61730 - 1 & 2
- IEC 61701 (SALT MIST)
- IEC 62804 (PID) / IEC 62716 (Ammonia)
- IEC 61853 (PAN File)
- ISO (9001 : 2015 , 1400 : 2015)
- **Make in India**

Ideal Solution For



Ground Mounted Projects



Home and Residential
Rooftop Installation



Commercial and Industrial (C & I)
Projects



Water Pumps



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High Quality Solar PV Modules Manufacturing



info@jointsolar.in

By Easy Photovoltaic Pvt. Ltd.

ELECTRICAL CHARACTERISTICS (STC) :

Module Type		JSD -24570	JSD -24575	JSD -24580	JSD -24585	JSD -24590	JSD -24595	JSD -24600
Maximum Power (Pmp)	W	570	575	580	585	590	595	600
Maximum Power Voltage (Vmp)	V	44.75	44.95	45.15	45.35	45.55	45.75	45.95
Maximum Power Current (Imp)	A	12.74	12.81	12.85	12.90	12.96	13.01	13.06
Open Circuit Voltage (Voc)	V	52.2	52.4	52.6	52.8	53.0	53.2	53.4
Short Circuit Current (Isc)	A	13.47	13.52	13.57	13.62	13.67	13.72	13.77
Module Efficiency (nm)	%	22.12	22.30	22.50	22.77	22.85	23.04	23.24
Power Tolerance	W	- 0 + upto 5 Watt with Positive Tolerance						

• STC:AM=1.5, irradiance=100W/m², Module Temperature=20°C

ELECTRICAL CHARACTERISTICS (NOCT) :

Maximum Power (Pmp)	W	430	433	437	441	445	449	453
Maximum Power Voltage (Vmp)	V	41.18	41.36	41.54	41.72	41.90	42.08	42.26
Maximum Power Current (Imp)	A	10.42	10.47	10.52	10.57	10.62	10.67	10.72
Open Circuit Voltage (Voc)	V	49.33	49.53	49.73	49.93	50.13	50.33	50.52
Short Circuit Current (Isc)	A	10.81	10.86	10.91	10.96	11.01	11.06	11.11

• NMOT: irradiance=800W/m², Environment Temperature=20°C, Wind Speed=1m/s

TOPCON OUTPUT-REAR SIDE BACKSIDE BIFACIAL POWER GAIN :

5 %	Maximum Power (Pmp)	599W	604W	609W	614W	620W	625W	630W
	Module Efficiency STC (%)	23.17%	23.37%	23.57%	23.78%	23.98%	24.18%	24.39%
15 %	Maximum Power (Pmp)	656W	661W	667W	673W	679W	684W	690W
	Module Efficiency STC (%)	25.37%	25.60%	25.82%	26.04%	26.27%	26.49%	26.71%
25 %	Maximum Power (Pmp)	713W	719W	725W	731W	738W	744W	750W
	Module Efficiency STC (%)	27.58%	27.82%	28.07%	28.31%	28.55%	28.79%	29.09%
30 %	Maximum Power (Pmp)	741W	748W	754W	761W	767W	774W	780W
	Module Efficiency STC (%)	28.68%	28.94%	29.19%	29.44%	29.69%	29.94%	30.19%

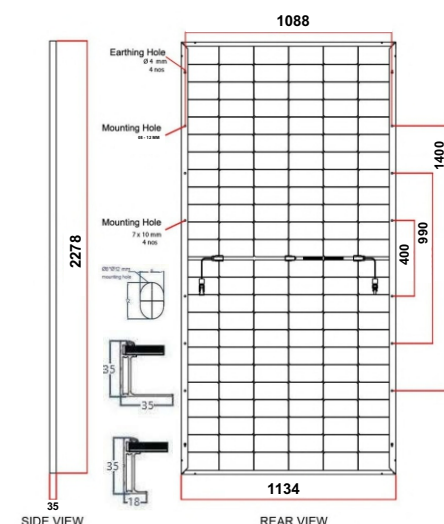
TEMPERATURE COEFFICIENT & PERMISSIBLE OPERATING CONDITIONS :

Specification	Details
Nominal Module Operating Temperature	42±2°C
Temperature Coefficient of Pmax	-0.29%/°C
Temperature Coefficient of Voc	-0.25%/°C
Temperature Coefficient of ISC	0.045%/°C
Bi-faciality Factor	78 ± 5%
Maximum System Voltage	1500V DC

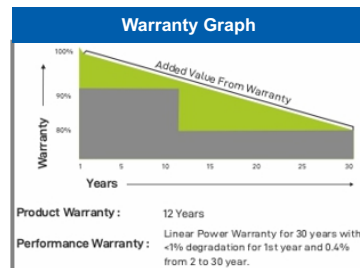
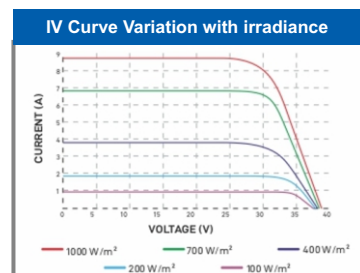
MECHANICAL SPECIFICATIONS :

Specification	Details
External Dimension (L*W*H)	2278*1134*35mm
Weight	32 Kg ± 2%
Number of Cells	144 (12 x 6 x 2) N-TOPCon Solar Cells, 16BB, (182x91mm)
Front Glass	2.0mm AR-coating heat - strengthened glass
Rear / Back Glass	2.0mm heat - strengthened glass
Frame	Anodized Aluminium frame with twin wall profile
Junction Box	IP68, Split Junction Box with 3 individual bypass diode rating 30 Amp
Cables & Connectors	4 sq.mm cables, 350 mm (+Ve) and 350 mm (-Ve) cables length, MC4 Compatible or 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
EVA / Encapsulant	EVA / POE / EPE - PID Free & UV Resistant

DRAWING (MEASUREMENT ARE IN MM) :



I-V CURVE



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

PACKING DETAILS :

DETAILS	DOMESTIC	EXPORT
Truck / Container	19FT	22FT
Pieces Per Pallet	28	28
Pallets Per Truck / Container	8	12
Total No. of Panel	224	336
Truck (KWp Approx)	132	198

**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 on-going innovation and product enhancement, joint Solar reserves the right to make necessary adjustment to the information described herein at any time without further notice.

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