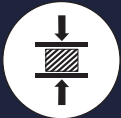


# TOPCON SOLAR PANEL

## 525W (Bi-Facial)



Half Cut Cells Are More Physically Durable,  
More Resistant To Cracking Reduce Power  
Loss increase module efficiency  
(Topcon up to 23 %)



Lower degradation rate, ensure  
consistent power over longer lifespan



16BB instead of 10MBB  
Technology decreases the distance  
between bus bars and finger grid line  
which is benefit to power increase.



Lower Temperature Coefficient



Higher bifacially, allowing for  
increased power generation



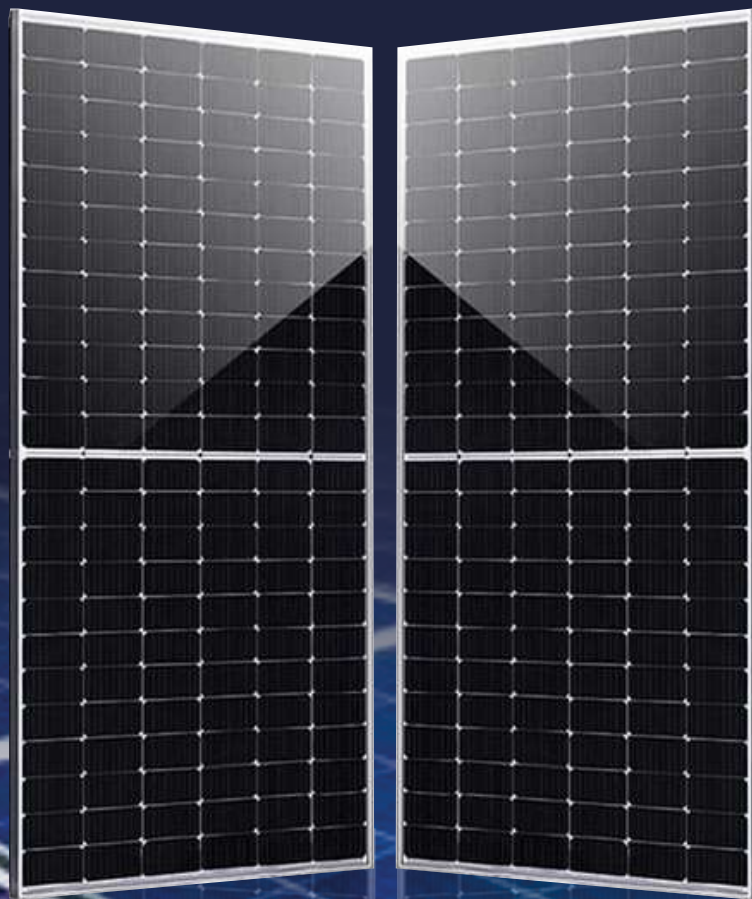
IP68, IP67  
for Long Term Endurance



Maintain Higher Efficiency  
in hotter condition



27 Years  
Performance Warranty



# TOPCON SOLAR PANEL

## 525W (Bi-Facial)

### TECHNICAL DATA

Electrical Parameter at STC	Bifacial N-Type Module
Module Type	UTL525-132BT
Capacity rating – Pmax(Wp)	525
Power Tolerance	±2%
Rated voltage - Vmp(V)	39.82
Rated current - Imp(A)	13.19
Short circuit current - Isc(A)	13.75
Open circuit voltage - Voc(V)	46.65
Module efficiency (%)	22.13

Under Standard Test Conditions (STC) of irradiance 1000 W/m<sup>2</sup>, spectrum AM 1.5 and Module temperature of 25°C. Except Pmax, all other parameters have a tolerance of ±3%.

### MECHANICAL SPECIFICATION

Solar cells	132 pcs TOPCon cell technology, Multi BB
Encapsulation	PID & UV resistance
Frame	Silver Anodized Aluminium Alloy
Front Glass	3.2 mm, High Transmission, AR Coated Tempered Glass
Back	Transparent Backsheet
Dimensions	(L) 2093 mm x (W) 1133 mm x (H) 35 mm
Weight	~26.50 Kg
J-box	IP 68 certified, 3 diodes, Split junction box
Mounting Holes (Y)	1000, 1640, 1400 MM
Mounting Holes (X)	1090MM
Max Fuse Rating	35A
Cable	4 mm <sup>2</sup> , Solar cable 300 mm/1400mm length or Customized length
Connectors	MC4 Type
Application Class	Class A
Electrical Safety	Class II
Fire Safety	Class C (Type 1)
Surface load	Snow load 5400 Pa, Wind load 2400 Pa

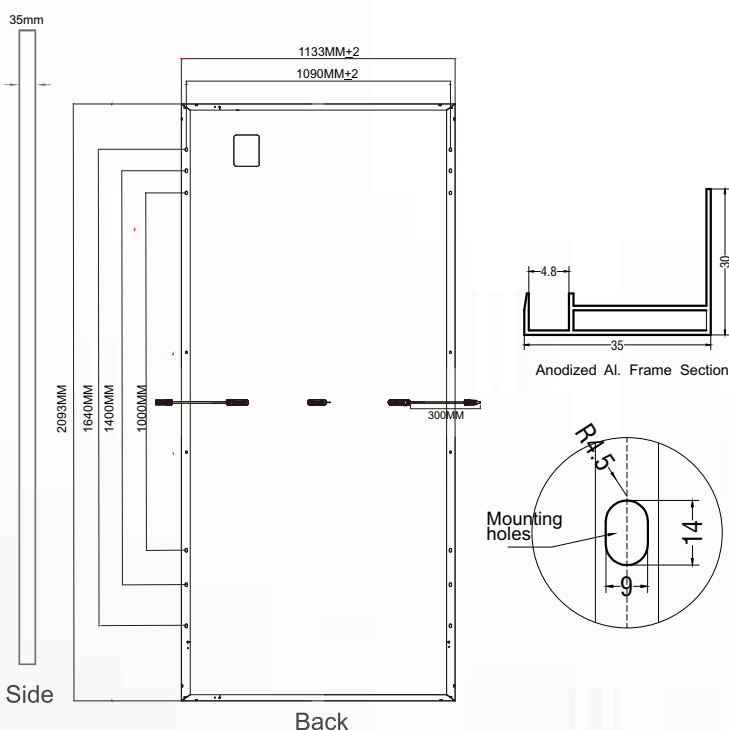
### PERMISSIBLE OPERATING CONDITIONS

Temperature range	-40°C to +85°C
NOCT	45±2°C
Maximum system voltage	1500 VDC
Hail resistance	Max. diameter of 25 mm with velocity 23 m/s

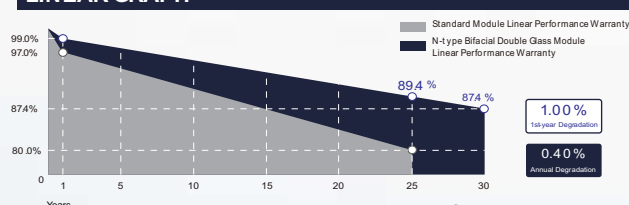
### TEMPERATURE COEFFICIENTS (TC)

Temperature Coefficient (Voc)	-0.26% /°C
Temperature Coefficient (Isc)	0.045% /°C
Temperature Coefficient (Pmax)	-0.32% /°C

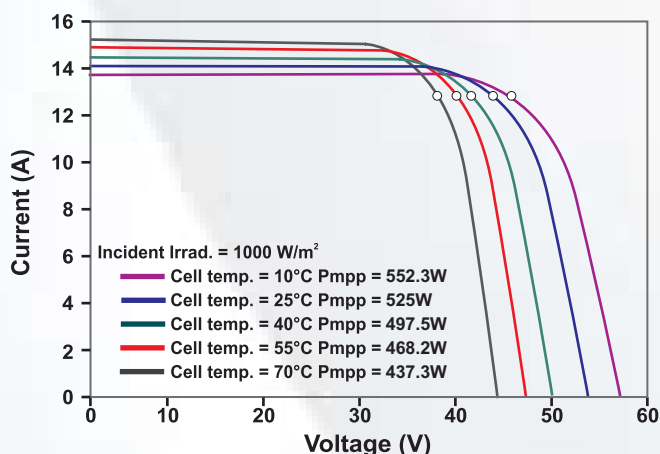
### DRAWING (MEASUREMENTS ARE IN MM)



### LINEAR GRAPH



### I-V Curve at STC



### WARRANTY

**10 Years - 90% of Power O/P & Next 17 Years - 80% of Power O/P**

\*Standard Test Conditions [STC] -1000 W/m<sup>2</sup> irradiance, Air Mass 1.5 and 25°C cell temperature. Nominal Operating Cell Temperature (NOCT) - 800 W/m<sup>2</sup> irradiance, Air Mass 1.5, Ambient temperature 20°C and Wind speed 1 m/s. Average power reduction of 4.5% at 200 W/m<sup>2</sup> as per IEC 60904-1. Measuring Uncertainty ± 3%.

Note :-

- The specifications included in this datasheet are subject to change without notice.
- The electrical data given here is for reference purpose only.
- Please confirm your exact requirements with the sales representative while placing your order.

### FUJIYAMA POWER SYSTEMS LTD.

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Unit 2 : Plot No 51-52, Sector - Ecotech 1 Extension 1, Greater Noida, Distt-Gautam Budh Nagar, U.P. - 201310

Unit 3 : Sector 6 Industrial Estate, Plot/Shed No. 5 & 14, IMT BAWAL, Phase 1, Bawal, Rewari, Haryana-123501

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