

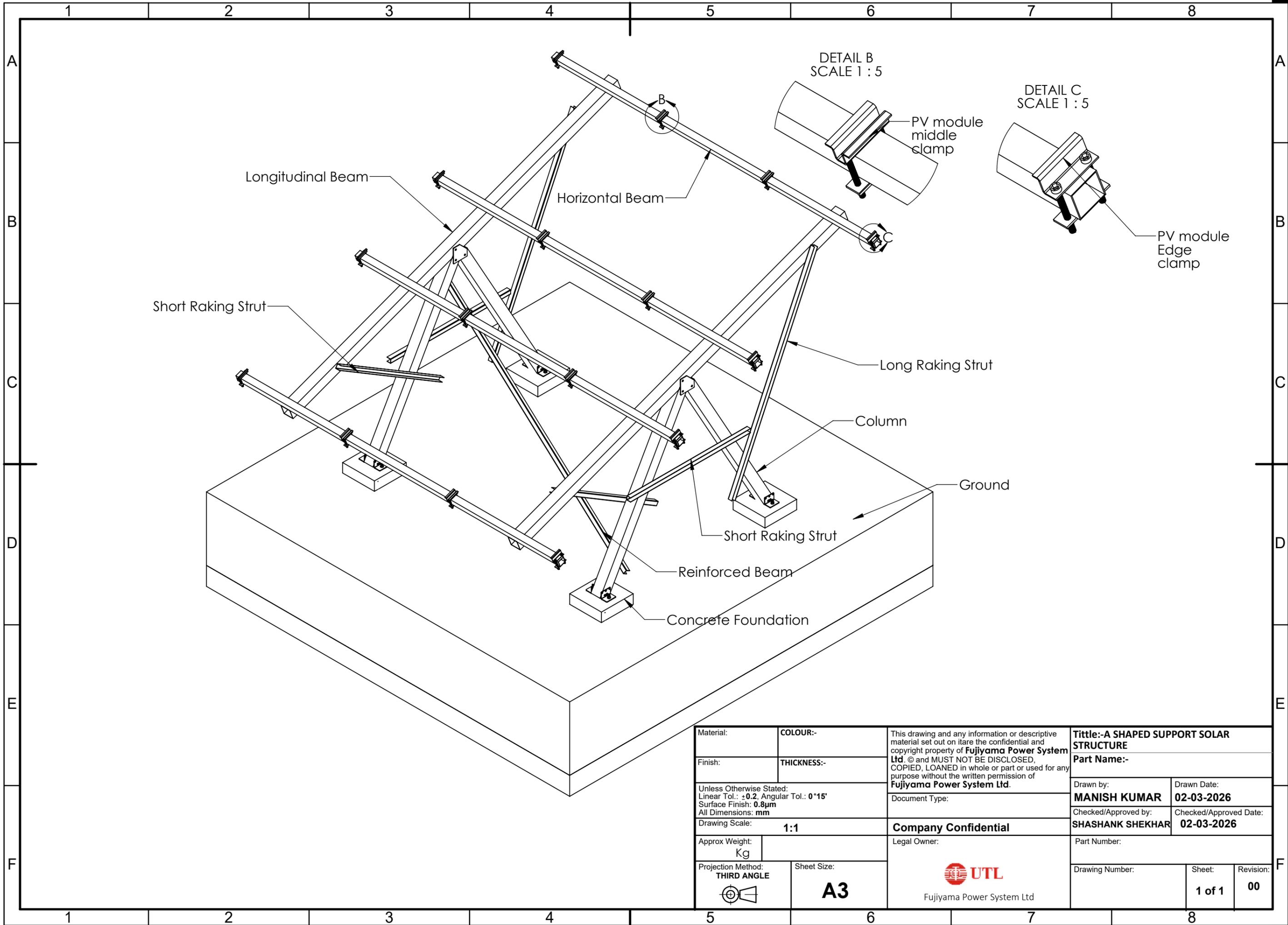
Notes:-

1. Allow scope of Construction error $\pm 3\text{mm}$
2. The design basic wind speed is related to the elevation angle. Basal soil bearing Capacity (f_{ak}) should be more than 100Kpa
3. All dimensions are millimeter unless otherwise stated.
4. Yield strength (yield point) of steel 335Mpa ($d=10\text{mm}$)
5. Concrete of Foundation C25, Concrete Cushion C10
6. Thickness of Concrete cover is 100mm unless otherwise stated
7. Verify base dimension before casting concrete
8. Vibration of concrete should be performed during pouring concrete.
9. Concrete Surface should be kept wet for 3 days after casting
10. Anchor bolt could be fixed on R04

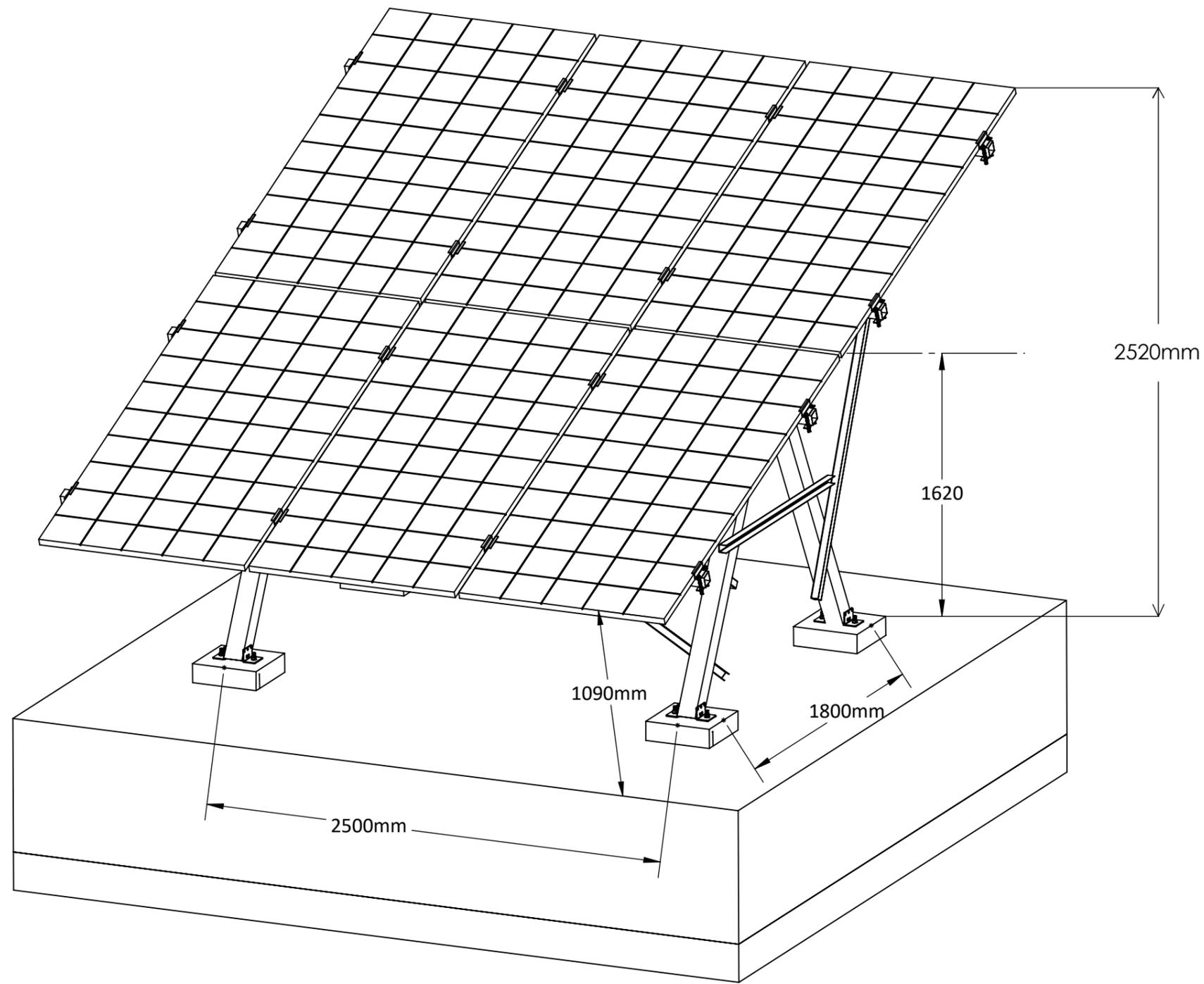
Steel Bar List of Each Foundation

No.	Dia d(mm)	Spacing (mm)	A (mm)	B (mm)	C (mm)	Length (mm)	Quantity (mm)	Total length (mm)	Weight Kg/m	Total weight (Kg)
R01	10	175	50	3200	50	3300	3	9.9	.62	19.53
R02	10	198	50	350	50	450	17	7.7	.62	19.53
R03	12	190	50	800	50	900	8	7.2	.62	19.53
R04	8	150	210	210	70	560	12	6.7	.62	19.53

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Finish:	THICKNESS:-		Part Name :-	
Unless Otherwise Stated: Linear Tol.: ± 0.2 , Angular Tol.: $0^\circ 15'$ Surface Finish: $0.8\mu\text{m}$ All Dimensions: mm		Document Type:	Drawn by: MANISH KUMAR	Drawn Date: 02-03-2026
Drawing Scale: 1:1		Company Confidential	Checked/Approved by: SHASHANK SHEKHAR	Checked/Approved Date:
Approx Weight: Kg		Legal Owner:	Part Number:	
Projection Method: THIRD ANGLE	Sheet Size: A3	 Fujiyama Power System Ltd.	Drawing Number:	Sheet: 1 of 1
			Revision: 00	



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Finish:	THICKNESS:-		Part Name:-			
Unless Otherwise Stated: Linear Tol.: ±0.2, Angular Tol.: 0°15' Surface Finish: 0.8µm All Dimensions: mm		Document Type:	Drawn by:	Drawn Date:		
Drawing Scale:	1:1	Company Confidential	MANISH KUMAR	02-03-2026		
Approx Weight:	Kg	Legal Owner:	Checked/Approved by:	Checked/Approved Date:		
Projection Method:	THIRD ANGLE	 Fujiyama Power System Ltd	SHASHANK SHEKHAR	02-03-2026		
Sheet Size:	A3		Part Number:			
			Drawing Number:	Sheet:	Revision:	
				1 of 1	00	



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Approx Weight:	Kg		Legal Owner:	Part Number:	
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					1 of 1

TECHNICAL DATA

Electrical Parameter at STC	Bi Facial Module
Module Type	UTL540-144BM
Capacity rating – Pmax(Wp)	540W
Power Tolerance	±3%
Rated voltage - Vmp(V)	40.64
Rated current - Imp(A)	13.29
Short circuit current - Isc(A)	13.60
Open circuit voltage - Voc(V)	49.39
Module efficiency (%)	20.93

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

PERMISSIBLE OPERATING CONDITIONS

Temperature range	-40°C to + 80°C
NOCT	45± 2°C
Maximum system voltage	1500 VDC

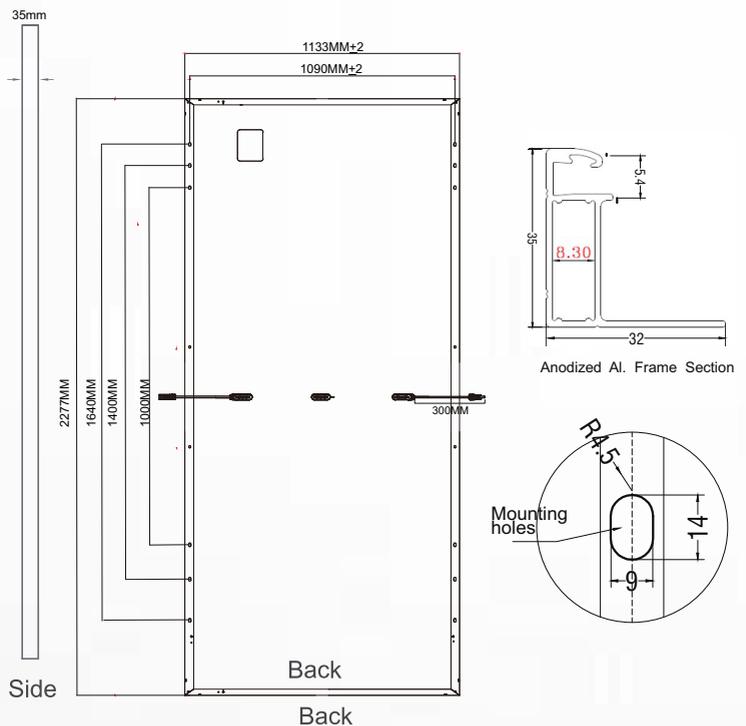
TEMPERATURE COEFFICIENTS (TC)

Temperature Coefficient (Voc)	-0.231% /°C
Temperature Coefficient (Isc)	0.0421% /°C
Temperature Coefficient (Pmax)	-0.315% /°C

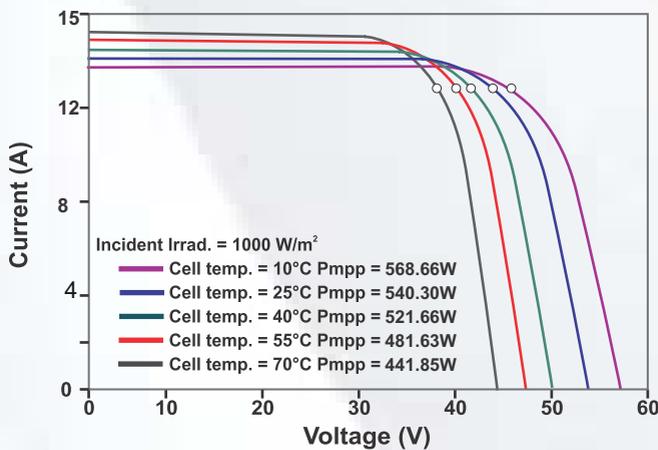
MECHANICAL SPECIFICATION

Solar cells	144 pcs PERC cell technology, 10BB
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) 2277 mm x (W) 1133 mm x (H) 35 mm
Weight	28 Kg (Approx.)
J-box	IP68 certified, 3 diodes, Split junction box
Mounting Holes (Y)	1000 MM, 1400MM, 1640MM
Mounting Holes (X)	1090MM ±2mm
Max Fuse Rating	30A
Cable	4 mm ² , Solar cable 300 mm 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

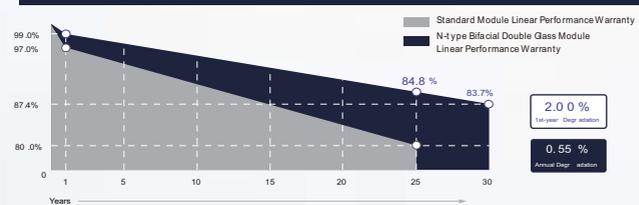
DRAWING (MEASUREMENTS ARE IN MM)



I-V Curve at STC



LINEAR GRAPH



WARRANTY

Power Degradation 2% in First year and 0.55%/year from 2 to 27 years

*Standard Test Conditions [STC] -1000 W/m² irradiance, Air Mass 1.5 and 25°C cell temperature. Nominal Operating Cell Temperature (NOCT) - 800 W/m² irradiance, Air Mass 1.5, Ambient temperature 20°C and Wind speed 1 m/s. Average power reduction of 4.5% at 200 W/m² 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.

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