



TECHNICAL DATA

Electrical Data : All Data refers to STC (1000W/m², AM1.5G, 25°C)

Type	INA72P315	INA72P320	INA72P325	INA72P330
Nominal Wattage (Pmax) Wp	315	320	325	330
No's of Full Cells	72	72	72	72
Matrix configuration	12x6	12x6	12x6	12x6
Maximum Voltage (Vmp) V	37.60	37.70	37.80	38.00
Open Circuit Voltage (Voc) V	45.90	46.00	46.10	46.30
Maximum Current (Imp) A	8.38	8.49	8.60	8.68
Short Circuit current (Isc) A	8.90	9.01	9.12	9.20
Fill factor (F.F.) in %	76.95	77.23	77.32	77.44
Module efficiency (%)	16.15	16.41	16.66	16.92
Power Tolerance	0 to +2%	0 to +2%	0 to +2%	0 to +2%

STC : 1000W/m² irradiance, 25°C cell temperature, AM1.5G spectrum according to EN 60904-3
Average relative efficiency reduction of < 5% at 200W/m² according to EN 60904-1

Electrical Parameters at NOCT

Maximum Power Pmax (Wp)	231.20	234.60	238.30	242.00
Maximum Power voltage V@Pmax(V)	34.40	34.50	34.60	34.80
Maximum Powercurrent I@Pmax(A)	6.73	6.80	6.88	6.95
Open circuit Voltage Voc (V)	42.50	42.60	42.70	42.70
Short circuit current Isc(A)	6.91	7.30	7.38	7.46

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

Temperature Coefficients (Tc) permissible operating conditions

Tc of Open Circuit Voltage (β)	-0.31%/°C ± 0.02
Tc of Short Circuit Current (α)	0.052%/°C ± 0.01
Tc of Power (γ)	-0.40%/°C ± 0.02
NOCT	45±2°C
Maximum Series Fuse Ratings	20 A
Temperature Range	-40°C to +85 °C
Maximum System Voltage	1500 VDC

MECHANICAL DATA

Length x Width x Height(in mm)	1970mm x 990mm x 40mm (±1.5mm)
Weight	21.50 Kg
Junction Box	IP 67 / IP 68 rated with 3 Bypass diodes
Cable & Connectors	4 sqm (12AWG) solar cable 1000mm x 2 nos black MC4 / MC4 compatible connectors
Application Class	Class A (Safety class II)
Substrate (Glass)	High transmission low iron tempered glass AR coated
Solar cells & Orientation	72 No's(12x6) Full poly crystalline Full solar cells
Cells Encapsulant	EVA (Ethylene Vinyl Acetate) - FC/UFC
Back Sheet	Composite film - White : (Black & Transparent optional)
Frame	Silver Anodized aluminum frame with twin wall profile (Black Optional)
Mechanical Load Test	Sustain Heavy wind & snow loads (2400 Pa & 5400 Pa or 550 Kg/m ² Maximum diameter of 24 mm with Hail impact of 83 Km/h

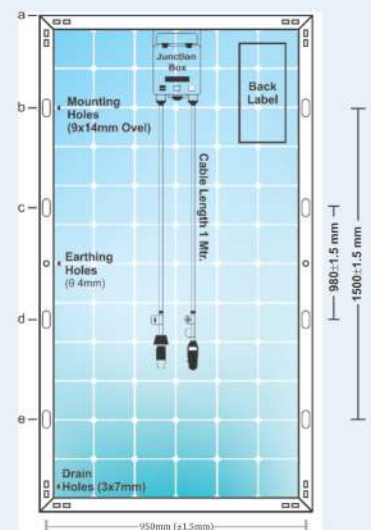
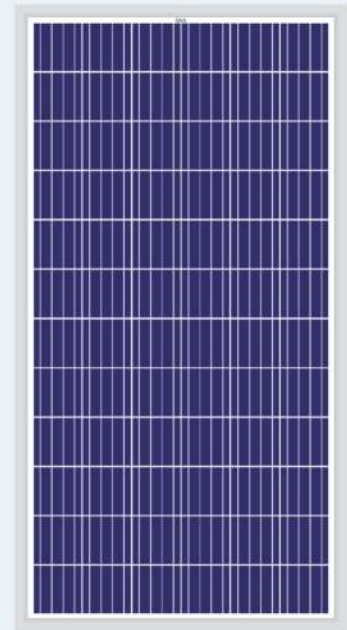
WARRANTY AND CERTIFICATIONS

Performance Warranty**	Linear Power Warranty for 25 years, 90% for 10 years and 80% for 25 years
Approvals and certificates	Products : IEC 61215:2005 - Ed 2, IEC 61730- Ed. 1 & Ed.2 , IEC 61701, IEC 62804, MNRE, UL, CE, IS : 14286

⚠ CAUTION: READ SAFETY AND DETAIL INSTALLATION MANUAL BEFORE USING THE PRODUCT (Refer Our Website).

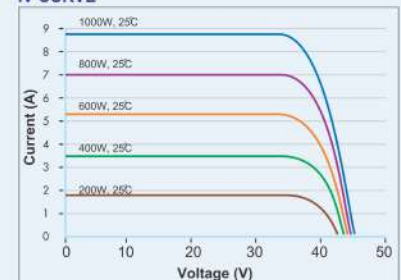
** Refer to Insolation energy warranty documents for terms and conditions.

**Specifications included in this datasheet are subject to change without notice, Electrical data without guarantee. Please confirm your requirement with the company representative while placing your order.



Distance	In mm (± 1.5)
a-b	235
b-c	260
c-d	960
d-e	260
b-e	1500

IV CURVE



Performance Warranty

