

Rubi Series 36 Mono Crystalline



TECHNICAL DATA

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

TYPE	INA 165M	INA 170M	INA 175M	INA 180M
Power max in watts (Nominal)	165	170	175	180
Voltage at Maximum Power (Vmp) V	19.10	19.20	19.40	19.60
Current at Maximum Power (Imp) A	8.62	8.85	9.04	9.18
Open circuit voltage (Voc) V	23.10	23.40	23.80	24.10
Short Circuit Current (Isc) A	9.17	9.35	9.53	9.67
Module Efficiency (%)	16.65	17.16	17.66	18.18
Max. Rated Current Series (Fuse Rating)	15A			
No's of Solar Cell per Module	36			
Length x Width x Height (in mm)	1490 x 665 x 35			

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

Electrical Parameters at NOCT	INA 165M	INA 170M	INA 175M	INA 180M
Peak Power Pmax (Wp)	123.00	126.70	130.40	133.50
Maximum Power Voltage V@Pmax(V)	17.50	17.70	17.80	17.90
Maximum Power Current I@Pmax(A)	7.04	7.18	7.31	7.44
Open Circuit Voltage Voc (V)	21.40	21.60	22.00	22.40
Short Circuit Current Isc (A)	7.42	7.57	7.72	7.87

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)	0.057%/°c ± 0.01
Tc of Power (γ)	-0.41%/°c ± 0.02
NOCT	45±2°C
Temperature Range	-40°C to +85 °c
Maximum System Voltage	1000 V DC
Limiting Reverse Current (Ir)	15.0 A

MECHANICAL DATA

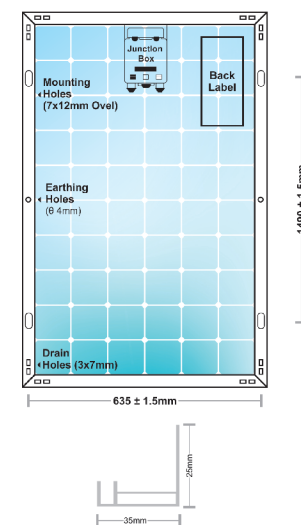
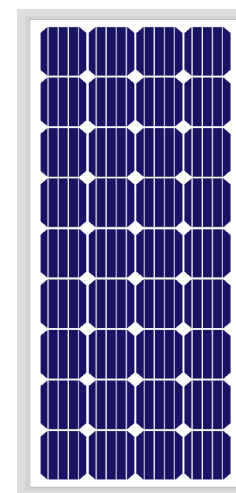
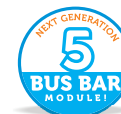
Junction Box	IP 65 rated with Bypass diodes
Application Class	Class A (Safety class II)
Substrate (Glass)	3.2 mm High transmission low iron tempered glass
Solar cells & Orientation	Mono Crystalline Solar Cells
Cells Encapsulant	EVA (Ethylene Vinyl Acetate) - FC/UFC
Back Sheet	Composite film - White
Frame	Silver Anodized aluminum frame with twin wall profile
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

** 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.



IV CURVE

