

Sapphire Series 36 Poly Crystalline



TECHNICAL DATA

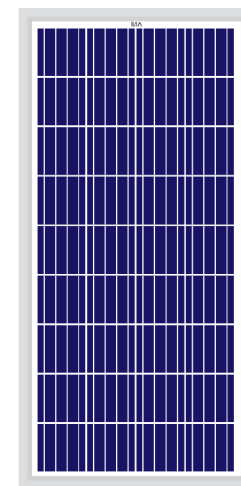
Electrical Data : All Data refers to STC (1000W/m², AM1.5G, 25°C)

TYPE	INA P-40		INA P-50	INA P-60	INA P-75	INA P 100	INA P-120	INA P-150	INA P-160
Power max in watts (Nominal)	40	40	50	60	75	100	120	150	160
Open circuit voltage (Voc) V	21.00	16.80	22.00	22.00	22.00	22.00	22.00	22.20	22.20
Short circuit current (Isc) A	2.54	3.31	3.28	3.83	4.67	6.06	7.17	8.50	9.34
Voltage at maximum power (Vmp) V	17.50	14.56	18.00	18.00	18.00	18.00	18.00	18.10	18.20
Current at maximum power (Imp) A	2.46	2.81	2.78	3.33	4.17	5.66	6.67	8.30	8.79
Max. Rated Current Series (Fuse Rating)	6A	6A	6A	6A	6A	10 A	12 A	15 A	
Solar cell size in mm	39*156.75	52*156.75	52*156.75	60*156.75	78*156.75	99*156.75	117*156.75	156.75*156.75	
No's of Solar cell per module	36	28	36	36	36	36	36	36	
Length x Width x Height (in mm)	430x665x34		540x665x34	640x665x34	775x665x34	1010x665x34	1278x665x34	1490 x 665 x5	
Maximum System Voltage	← 600 VDC						← 1000 VDC →		

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

Temperature Coefficients (Tc) permissible operating conditions

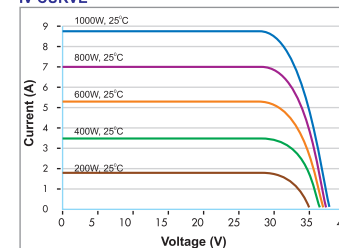
Tc of Open Circuit Voltage (β)	-0.31%/°c ± 0.02
Tc of Short Circuit Current (α)	0.052%/°c ± 0.01
Tc of Power (γ)	-0.40%/°c ± 0.02
NOCT	45±2°C
Temperature Range	-40°C to +85 °c
Limiting Reverse Current (Ir)	15.0 A



MECHANICAL DATA

Junction Box	IP 65 rated with Bypass diodes
Application Class	Class A (Safety class II)
Substrate (Glass)	High transmission low iron tempered glass
Solar cells & Orientation	Polycrystalline 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

IV CURVE



** 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.