

# Polycrystalline Solar Panels

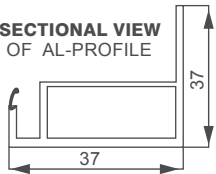


**30W to 220W**

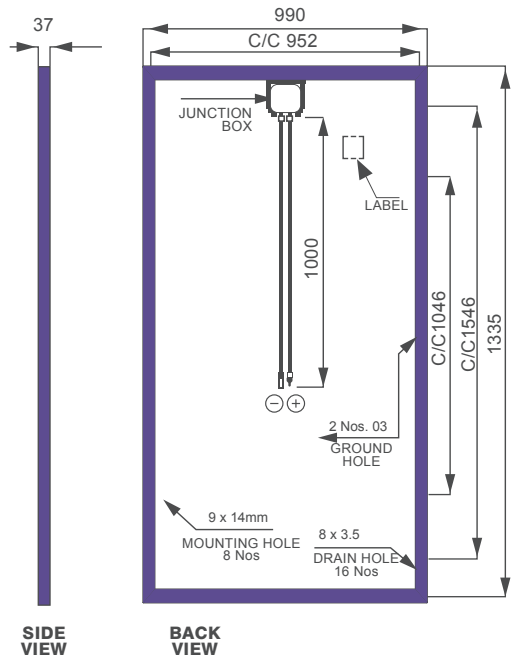
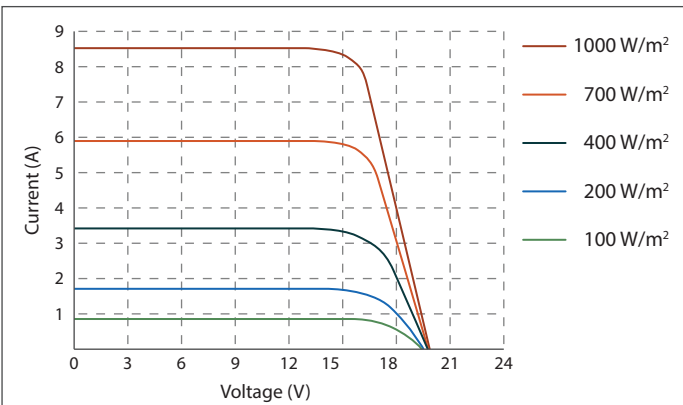
- Higher power output
- Anti-PID Resistance
- Higher lifetime power yield
- Low temperature coefficient
- Special customized solutions
- Extreme weather conditions
- Easily mounted with a number of assembly options



**Dimensions:**  
(In mm)



### IV Curves



## Technical Data

PERFORMANCE UNDER STANDARD TEST CONDITION (STC) (Irradiance of 1000 W/m<sup>2</sup>, AM 1.5 and cell temperature of 25 °C)

Capacity Rating - Pmax (Wp)	40W	50W	60W	75W	80 W	100W	125W	150W	160W	200W	215W	220W
Maximum Operating Voltage (Vmp)	18.57	18.57	18.57	18.60	18.54	18.68	18.68	18.68	18.97	24.85	25.82	26.20
Maximum Operating Current (Imp)	2.18	2.70	3.23	4.06	4.31	5.38	6.69	8.07	8.42	8.08	8.34	8.40
Open Circuit Voltage (Voc)	22.50	22.50	22.50	22.50	22.20	22.50	22.50	22.50	22.60	29.33	30.28	30.67
Short Circuit Current (Isc)	2.39	2.97	3.55	4.46	4.58	5.92	7.09	8.66	8.94	8.48	8.85	8.91
Module Efficiency (%)	13.60	13.51	14.41	14.45	13.44	14.69	15.76	15.33	16.33	0.14	16.27	16.65

## Mechanical Specification

PERFORMANCE UNDER STANDARD TEST CONDITION (STC) (Irradiance of 1000 W/m<sup>2</sup>, AM 1.5 and cell temperature of 25 °C)

Dimensions (Length in mm)	446	561	630	785	785	1031	1205	1486	1486	1335	1335	1335
Dimensions (W X T in mm)	666X30	666X30	666X30	666X30	666X30	666X30	666X30	666X30	666X30	990X35	990X36	990X37
Weight (kg)	3.80	4.60	5.40	6.30	7.56	8.00	9.70	11.50	11.50	16.70	16.70	16.70
No of cell	36(9x4)	36(9x4)	36(9x4)	36(9x4)	36(9x4)	36(9x4)	36(9x4)	36(9x4)	36(9x4)	48(8X6)	48(8X6)	48(8X6)
Mounting Holes Pitch (Y)- mm	630	630	630	630	630	630	630	630	630	685	685	685
Mounting Holes Pitch (X)- mm	200	200	200	300	300	600	600	1000	1000	950	950	950
No of Bypass Diode	1	2	2	2	2	2	2	2	2	3	3	3
Junction Box	IP 68											
Front glass (AR Coated Tempered Glass)	Tempered & Low Iron Glass, 3.2/4.0 mm											
Encapsulate	Ethylene Vinyl Acetate											
Back Sheet	Composite Film - White Black and Transparent Optional											
Frame	"Silver Anodized Alluminum Frame Black Optional"											
Cable	1200 mm/ 4 mm <sup>2</sup>											
Electrical safety class	II											
Application Class	A											
Fire Sfety	C											

## Temperature Coefficients

Current Temperature Coefficients	0.05/0.021 %/°C
Voltage Temperature Coefficients	- 0.35/- 0.291 %/°C
Power Temperature Coefficients	- 0.45/0.39 %/°C

## Permissible Operating Conditions

Operating Temperature Range	From- 40 °C to + 85 °C
Maximum System Voltage	1000Vdc/600Vdc
Maximum Series Fuse Rating	15 A/10A




The contents of this brochure is for knowledge purpose only and Suryakamal reserves the rights to change technical parameters at anytime without any notification.

## Suryakamal Energy Private Limited

**Manufacturing Address:** Shade No-4,  
Radhika Enterprise, Survey No-1303,  
Undrel, Ta-Daskroi, Ahmedabad,  
Gujarat, India - 382433.

**Head Office:** Elite-1007,  
Nr. Sola Bridge, S.G. Highway,  
Sola, Ahmedabad,  
Gujarat, India - 380060.

Follow us on

 /suryakamalenergy  
 /suryakamalsolar  
 /company/suryakamalenergy

info@suryakamalenrg.com | www.suryakamalenrg.com