

# Polycrystalline Solar Panels

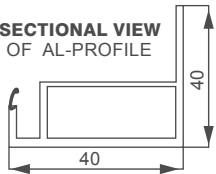


**72 Cell**

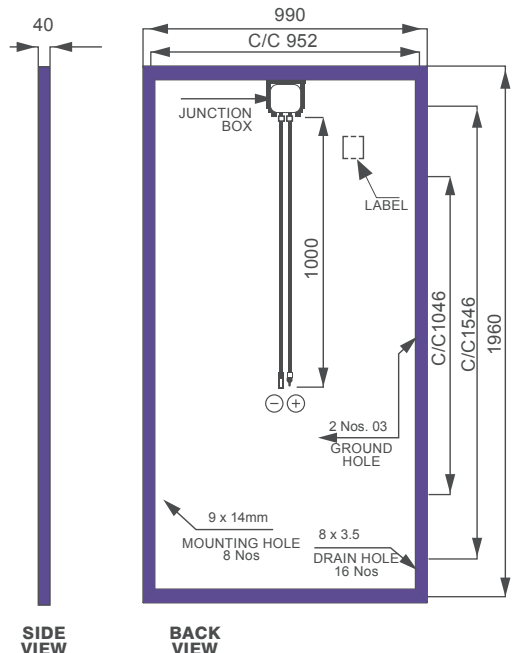
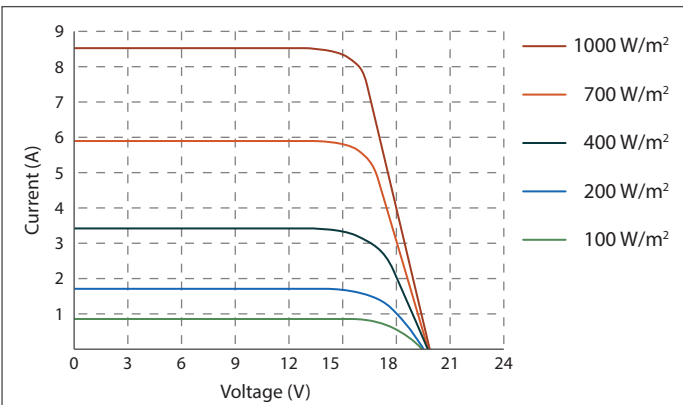
- Higher power output
- Anti-PID Resistance
- Higher lifetime power yield
- Low temperature coefficient
- Special customized solutions
- Extreme weather conditions
- Easily mounted with a number of assembly options



**Dimensions:**  
(In mm)



### IV Curves



**SIDE VIEW**

# Polycrystalline Module (72 Cell)



## 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)    | 300W  | 310W  | 315W  | 320W  | 325W  | 330W  | 335W  | 340W  | 345W  |
| Maximum Operating Voltage(Vmp) | 37.51 | 37.81 | 37.94 | 38.40 | 38.60 | 38.85 | 39.00 | 37.40 | 37.60 |
| Maximum Operating Current(Imp) | 8.00  | 8.20  | 8.31  | 8.35  | 8.43  | 8.50  | 8.60  | 9.10  | 9.18  |
| Open Circuit Voltage (Voc)     | 45.00 | 45.29 | 45.36 | 45.50 | 45.64 | 45.79 | 46.15 | 47.00 | 47.29 |
| Short Circuit Current (Isc)    | 8.56  | 8.77  | 8.88  | 8.95  | 8.97  | 9.04  | 9.09  | 9.59  | 9.68  |
| Module efficiency (%)          | 15.50 | 16.00 | 16.20 | 16.50 | 16.70 | 17.00 | 17.26 | 17.50 | 17.75 |
| Power Tolerance (%)            | 0-2   | 0-2   | 0-2   | 0-2   | 0-2   | 0-2   | 0-2   | 0-2   | 0-2   |

## Technical Data

PERFORMANCE UNDER NORMAL OPERATING TEST CONDITION (NOTC)  
(Irradiance of 800 W/m<sup>2</sup>, cell temperature of 20 °C, Wind speed 1 m/sec)

|                                |        |        |        |        |        |        |        |        |        |
|--------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Capacity Rating - Pmax (Wp)    | 217.77 | 225.03 | 228.66 | 232.29 | 235.92 | 239.55 | 243.18 | 247.86 | 251.51 |
| Maximum Operating Voltage(Vmp) | 34.22  | 34.49  | 34.61  | 35.03  | 35.21  | 35.44  | 35.58  | 34.05  | 34.25  |
| Maximum Operating Current(Imp) | 6.36   | 6.52   | 6.61   | 6.64   | 6.70   | 6.76   | 6.84   | 7.28   | 7.34   |
| Open Circuit Voltage (Voc)     | 41.53  | 41.80  | 41.86  | 41.99  | 42.12  | 42.26  | 42.59  | 43.24  | 43.51  |
| Short Circuit Current (Isc)    | 6.87   | 7.03   | 7.12   | 7.18   | 7.19   | 7.25   | 7.29   | 8.06   | 8.13   |

## Mechanical Specification

|  |  |
|--|--|
| Dimensions (LxWxT in mm)               | 1960x990x40                            |
| Weight (kg)                            | 21.48                                  |
| No of cell                             | 72 (12x6)                              |
| Frame                                  | Silver Anodized Aluminum Alloy (40 HS) |
| Front glass(AR Coated Tempered Glass ) | 3.2mm                                  |
| Encapsulate                            | PID free Ethylene Vinyl Acetate Sheet  |
| Back Sheet                             | UV protected reflective backsheet      |
| Junction Box with 3- Bypass diode      | 4 terminal junction Box (IP68)         |
| Cable (4 mm <sup>2</sup> )             | Solar cable 400 to 1200 mm length      |
| Application class                      | Class A                                |
| Electrical safety class                | class II                               |
| Load Test                              | Front- 5400 Pa, Back- 2400 Pa          |
| Fire Sfety                             | Class C (Type 1)                       |
| Mounting Holes Pitch (Y)- mm           | [A]1360 [B] 980                        |
| Mounting Holes Pitch (X)- mm           | 952                                    |

## Permissible Operating Conditions

|                             |                                       |
|-----------------------------|---------------------------------------|
| Operating Temperature Range | From- 40 °C to + 85 °C                |
| Maximum System Voltage      | 1000 V/1500 V                         |
| Maximum Series Fuse Rating  | 20A                                   |
| Hail resistance             | Max dia of 25 mm with velocity 23 m/s |

## Temperature Coefficients

|                                  |              |
|----------------------------------|--------------|
| Current Temperature Coefficients | 0.021 %/°C   |
| Voltage Temperature Coefficients | - 0.291 %/°C |
| Power Temperature Coefficients   | - 0.397 %/°C |

## Permissible Operating Conditions

|                       |   |
|-----------------------|---|
| Product Warranty      | 10 Years  |
| Performance Guarantee | 30 year Liner power warranty<br>90% for 10 years and 80% for 25 years |
| Product Certificates  | IEC61215, IEC61730, IEC 61701,<br>IEC62716, IEC 62804, CE, BIS        |

## Packaging Information

|                   |       |       |
|-------------------|-------|-------|
| Container         | 20'GP | 40'HC |
| Pallets/Container | 10    | 24    |
| Modules/Container | 300   | 720   |

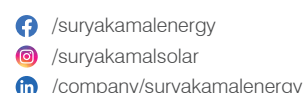
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