



Suntastic Solar Systems Private Limited

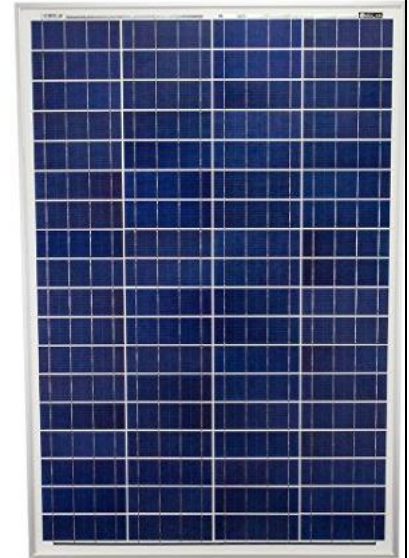
Factory: 19 / 20, Skylab Avenue Extension, Thiruvalluvar Nagar, Sithalapakkam,
Chennai - 600 126, Tamil Nadu.

Mob: 73170 1192 / 96; GST: 33AAXCS4958B1ZZ

E-mail: marketing@suntasticsolarsystems.com; Web: www.suntasticsolarsystems.com

FEATURES

- 18 % Efficiency Grade A156.75 mm poly crystalline cells.
- High quality EVA & Back sheet to ensure high performance and provide good weather resistance for rugged environments.
- Anodized aluminium alloy frame and tempered clear glass with low iron content to enhance high efficiency.
- By pass diodes provided to avoid effect of partial shading.
- + 2 % Positive Tolerance Power Output.



Warranty:

- Product Warranty – 15 Years
 - Performance Warranty – 25 Years
- First 10 years: 90 % Power Output
11 – 15 Years: 87.5 % Power Output
15 – 20 years: 85 % Power output
21-25 years: 80 % Power output

Electrical characteristic

Product Description	SSS - 100
Rated power Pmax - [w]	100
Maximum Power voltage Vmax - [V]	19.08 V
Maximum Power current Imax- [A]	5.45 A
Open circuit voltage -[V]	23.3 V
Short circuit current -[A]	5.86 A
Tolerance	+ 2%
Fill factor (FF)	76.15 %
Module Efficiency	15.7 %

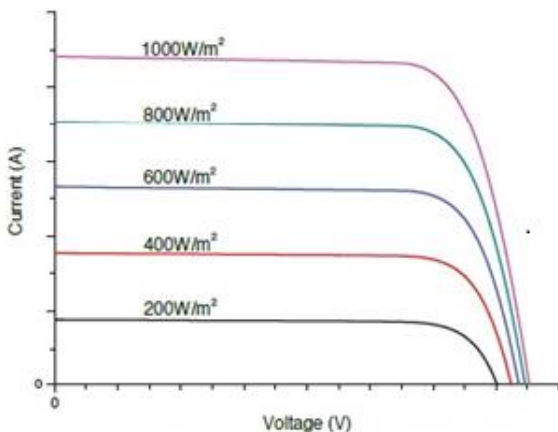
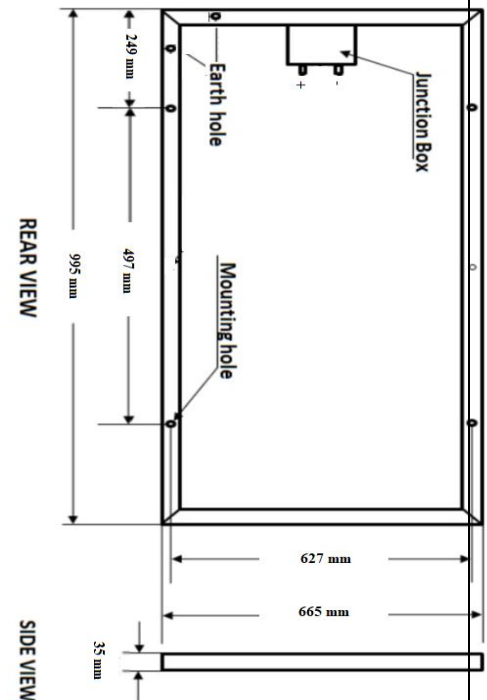
Standard test conditions : irradiance 1000w/m²,Module temperature 25°C,spectrum A M 1.5

Mechanical Specifications

Length [mm] - A	995
Width [mm] - B	665
Thickness [mm] - C	35
Mounting slot [mm]- D	249
Mounting slot [mm]- E	497
No of cells & arrangement	36 (9 ×4)

Module Drawing & Mounting Details

Other characteristics:	
Cell type	High Efficiency multi Crystalline cell (156.75×156.75mm)
Front glass	Toughened Textured Low reflectivity Glass;
Glass thickness	3.2 mm
Cell Encapsulation	EVA (Ethylene Vinyl Acetate)
Back sheet	Poly Vinyl Di Fluoride (PVDF)
Frame	Silver Anodized Aluminum Alloy (15 microns)
Junction Box	3 Rail; 2 Diode Junction Box



Current voltage dependence on irradiance and module temperature
this is only indicative showing affect of temperature and intensity on power

Temperature coefficients

Voltage Voc : (- 0.379% of Voc / K)

Current Isc : (-0.0296% of Isc / K)

Power Pmax : (-0. 39% / deg K)

Maximum system voltage : 1000VDC

Operating module temperature :-
40°C to 90°C

NOCT : 47°C ± 2°C



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Electrical characteristic

Product Description	SSS - 250
Rated power Pmax - [w]	250
Maximum Power voltage Vmax - [V]	30.94 V
Maximum Power current Imax- [A]	8.08 A
Open circuit voltage -[V]	37.9 V
Short circuit current -[A]	8.59 A
Tolerance	± 2%
Fill factor (FF)	76.11 %
Module Efficiency	15.9 %

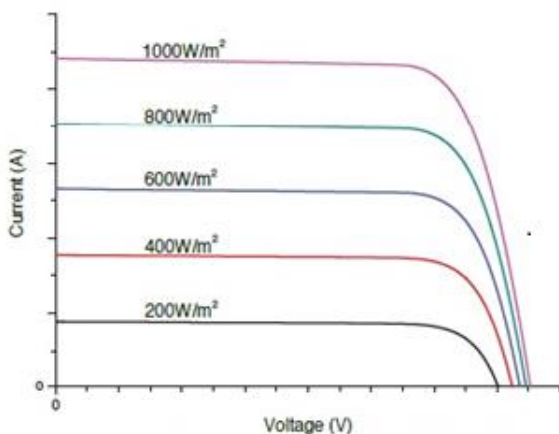
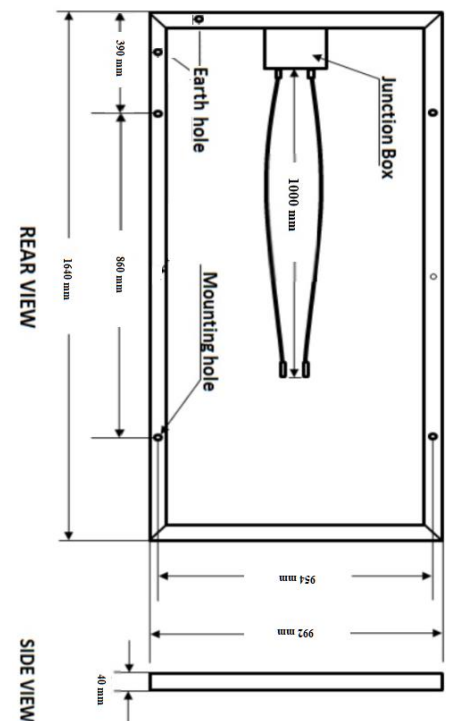
Standard test conditions : irradiance 1000w/m²,Module temperature 25°C,spectrum A M 1.5

Mechanical Specifications

Length [mm] - A	1640 mm
Width [mm] - B	992 mm
Thickness [mm] - C	40
Mounting slot [mm]- D	390 mm
Mounting slot [mm]- E	860 mm
No of cells & arrangement	60 (10 X 6)

Module Drawing & Mounting Details

Other characteristics:	
Cell type	High Efficiency multi Crystalline cell (156.75×156.75mm)
Front glass	Toughened Textured Low reflectivity Glass;
Glass thickness	3.2 mm
Cell Encapsulation	EVA (Ethylene Vinyl Acetate)
Back sheet	Poly Vinyl Di Fluoride (PVDF)
Frame	Silver Anodized Aluminum Alloy (15 microns)
Junction Box	4 Rail; 3 Diode Junction box



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Electrical characteristic

Product Description	SSS - 300
Rated power Pmax - [w]	300
Maximum Power voltage Vmax - [V]	36.18 V
Maximum Power current Imax- [A]	8.36 A
Open circuit voltage -[V]	43.15 V
Short circuit current -[A]	8.95 A
Tolerance	$\pm 2\%$
Fill factor (FF)	78.4 %
Module Efficiency	15.5 %

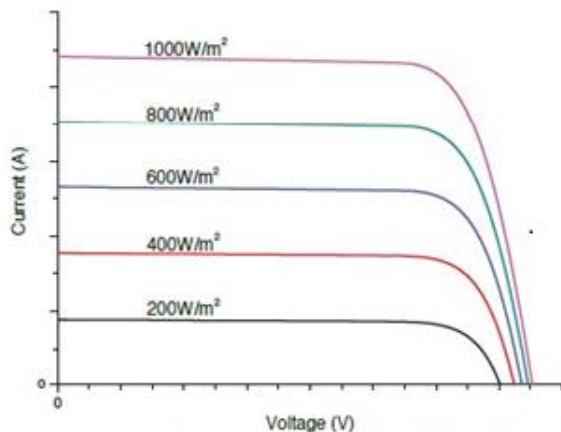
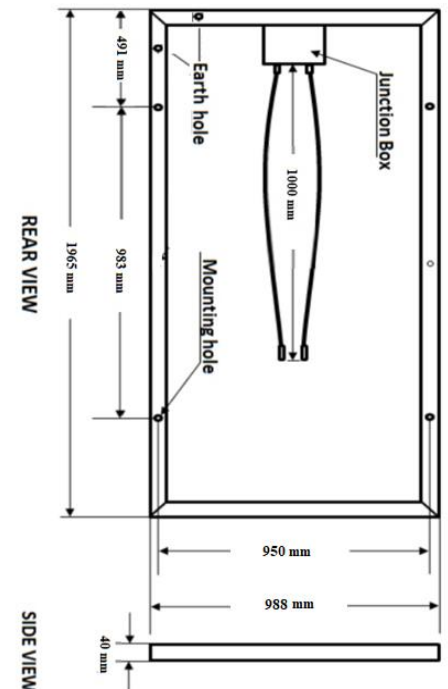
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Mechanical Specifications

Length [mm] - A	1965
Width [mm] - B	988
Thickness [mm] - C	40
Mounting slot [mm]- D	491
Mounting slot [mm]- E	983
No of cells & arrangement	72(7 × 10)

Module Drawing & Mounting Details

Other characteristics:	
Cell type	High Efficiency multi Crystalline cell (156.75×156.75mm)
Front glass	Toughened Textured Low reflectivity Glass;
Glass thickness	3.2 mm
Cell Encapsulation	EVA (Ethylene Vinyl Acetate)
Back sheet	Poly Vinyl Di Fluoride (PVDF)
Frame	Silver Anodized Aluminum Alloy (15 microns)
Junction Box	4 Rail; 3 Diode Junction box



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