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# **EnergyPal**

## **Solar Panel Guide Specification Data Sheet**

**Premier Solar Systems Pvt Ltd  
PSS 1205-1275  
PSS 1218**

Also available on the web at  
[EnergyPal.com/premier-solar-systems-pvt-ltd-solar-panels/pss-1218](http://EnergyPal.com/premier-solar-systems-pvt-ltd-solar-panels/pss-1218)



# PSS 1205 to 1275

## Photovoltaic crystalline modules

- 12V (Other Voltages Optional)
- Mono/Multicrystalline

Premier's Solar modules use crystalline solar cells. The solar cells are individually characterized and electronically matched prior to their interconnection. Encapsulation beneath imported high transmission tempered glass is accomplished using an advanced, UV resistant thermosetting plastic. The encapsulant, ethylene vinyl acetate, cushions the solar cells within the laminate and protects the cells from etching due to harsh weather conditions. The high strength polymer sheet protects the rear surface from ingress of moisture and mechanical damage.

Premier solar modules are a versatile solution for stand-alone power systems, home light systems, solar displays, telecommunication and water pumps. Due to higher system voltages Premier Solar modules are excellently suited for grid connected solar photovoltaic implementations.



- More Energy
- Excellent Value for Money
- IEC 61215 Ed. 2 certified
- ISO 9001 certified
- MNRE approved

# Premier Solar

# Technical Data

## Electrical data

The electrical data apply to standard test conditions (STC):

Irradiance at the module level of 1.000 W/m<sup>2</sup> with spectrum AM 1.5 and a cell temperature of 25 °C.

Model No.	PSS 1205	PSS1210	PSS1215	PSS1218	PSS1220
Wattage Wp	5	10	15	18	20
Voltage at Max power, Vmax	17.2	16.8	16.8	16.8	16.8
Open circuit voltage, Voc	21.0	21.0	21.0	21.0	21.0
Current at Max Power, Imax	0.29	0.58	0.90	1.05	1.20
Short circuit current, Isc	0.32	0.63	1.05	1.26	1.40

The rated power may vary by ±3% and all other electrical parameters by ±10%.

## Dimensions and weights

Model No.	PSS 1205	PSS1210	PSS1215	PSS1218	PSS1220
Dimensions (mm)	255 x 285 x 22	460 x 285 x 22	415 x 475 x 22	475 x 535 x 24	475 x 535 x 24
Weight (kg)	1.3	1.75	3.5	4.5	4.5

## Characteristic data

Model No.	PSS 1205	PSS1210	PSS1215	PSS1218	PSS1220
No of cells	36	36	36	36	36
Type of cells	Poly / Mono	Poly / Mono	Poly / Mono	Poly / Mono	Poly / Mono

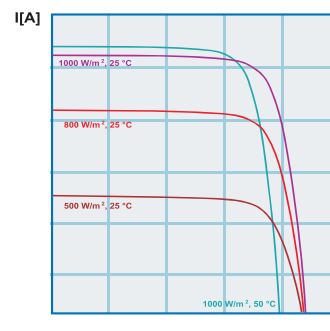
## Limits

Operating temperature, °C	- 40 to + 90 °C
Wind speeds, kmph	200

The right is reserved to make technical modifications.

## Temperature coefficients

Power	T <sub>K</sub> (P <sub>n</sub> )	- 0.47 % / °C
Open-circuit voltage	T <sub>K</sub> (V <sub>oc</sub> )	- 0.38 % / °C
Short-circuit current	T <sub>K</sub> (I <sub>sc</sub> )	+ 0.10 % / °C



Current/voltage characteristics with dependence on irradiance and module-temperature.

## Qualifications

The PSS Modules complies with the requirements of IEC 61215, 2nd Edition



## PREMIER SOLAR SYSTEMS (P) LTD.

3rd floor, V.V. Towers, Karkhana Main Road, Secunderabad - 500 015. Greater Hyderabad. A.P., INDIA.

Ph: +91-40-27744415/16 Fax: +91-40-27744417

e-mail: premiersolar@yahoo.com • website: www.premiersolarsystems.com

# Technical Data

## Electrical data

The electrical data apply to standard test conditions (STC):

Irradiance at the module level of 1.000 W/m<sup>2</sup> with spectrum AM 1.5 and a cell temperature of 25 °C.

Model No.	PSS 1225	PSS1230	PSS1235	PSS1237	PSS1240
Wattage Wp	25	30	35	37	40
Voltage at Max power, Vmax	16.8	16.8	16.8	16.8	16.8
Open circuit voltage, Voc	21.0	21.0	21.0	21.0	21.0
Current at Max Power, Imax	1.50	1.75	2.10	2.20	2.40
Short circuit current, Isc	1.75	2.10	2.40	2.55	2.75

The rated power may vary by ±3% and all other electrical parameters by ±10%.

## Dimensions and weights

Model No.	PSS 1225	PSS1230	PSS1235	PSS1237	PSS1240
Dimensions (mm)	475 x 535 x 34	535 x 635 x 34	535 x 635 x 34	535 x 635 x 34	535 x 635 x 34
Weight (kg)	5.5	6.0	6.0	6.5	7.5

## Characteristic data

Model No.	PSS 1225	PSS1230	PSS1235	PSS1237	PSS1240
No of cells	36	36	36	36	36
Type of cells	Poly / Mono	Poly / Mono	Poly / Mono	Poly / Mono	Poly / Mono

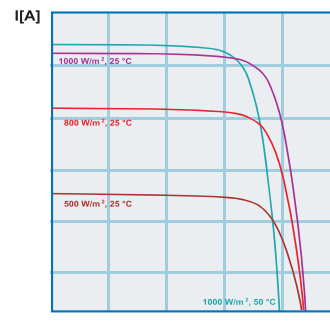
## Limits

Operating temperature, °C	- 40 to + 90 °C
Wind speeds, kmph	200

The right is reserved to make technical modifications.

## Temperature coefficients

Power	T <sub>K</sub> (P <sub>n</sub> )	- 0.47 % / °C
Open-circuit voltage	T <sub>K</sub> (V <sub>oc</sub> )	- 0.38 % / °C
Short-circuit current	T <sub>K</sub> (I <sub>sc</sub> )	+ 0.10 % / °C



Current/voltage characteristics with dependence on irradiance and module-temperature.

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e-mail: premiersolar@yahoo.com • website: www.premiersolarsystems.com

# Technical Data

## Electrical data

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Irradiance at the module level of 1.000 W/m<sup>2</sup> with spectrum AM 1.5 and a cell temperature of 25 °C.



Model No.	PSS 1250	PSS1260	PSS1270	PSS1275
Wattage Wp	50	60	70	75
Voltage at Max power, Vmax	16.8	16.8	16.8	16.8
Open circuit voltage, Voc	21.0	21.0	21.0	21.0
Current at Max Power, Imax	3.0	3.58	4.16	4.46
Short circuit current, Isc	3.45	4.15	4.9	5.25

The rated power may vary by ±3% and all other electrical parameters by ±10%.

## Dimensions and weights



Model No.	PSS 1250	PSS1260	PSS1270	PSS1275
Dimensions (mm)	845 x 540 x 34	975 x 535 x 34	1205 x 535 x 34	1205 x 535 x 34
Weight (kg)	9.0	9.5	10.5	11.0

## Characteristic data



Model No.	PSS 1250	PSS1260	PSS1270	PSS1275
No of cells	36	36	36	36
Type of cells	Poly / Mono	Poly / Mono	Poly / Mono	Poly / Mono

## Limits



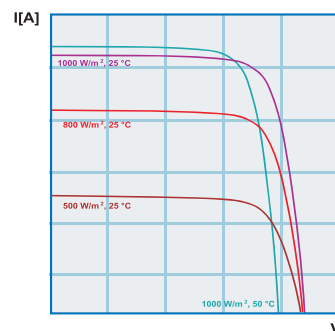
Operating temperature, °C	- 40 to + 90 °C
Wind speeds, kmph	200

The right is reserved to make technical modifications.

## Temperature coefficients



Power	T <sub>K</sub> (P <sub>n</sub> )	- 0.47 % / °C
Open-circuit voltage	T <sub>K</sub> (V <sub>oc</sub> )	- 0.38 % / °C
Short-circuit current	T <sub>K</sub> (I <sub>sc</sub> )	+ 0.10 % / °C



Current/voltage characteristics with dependence on irradiance and module-temperature.

## Qualifications



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