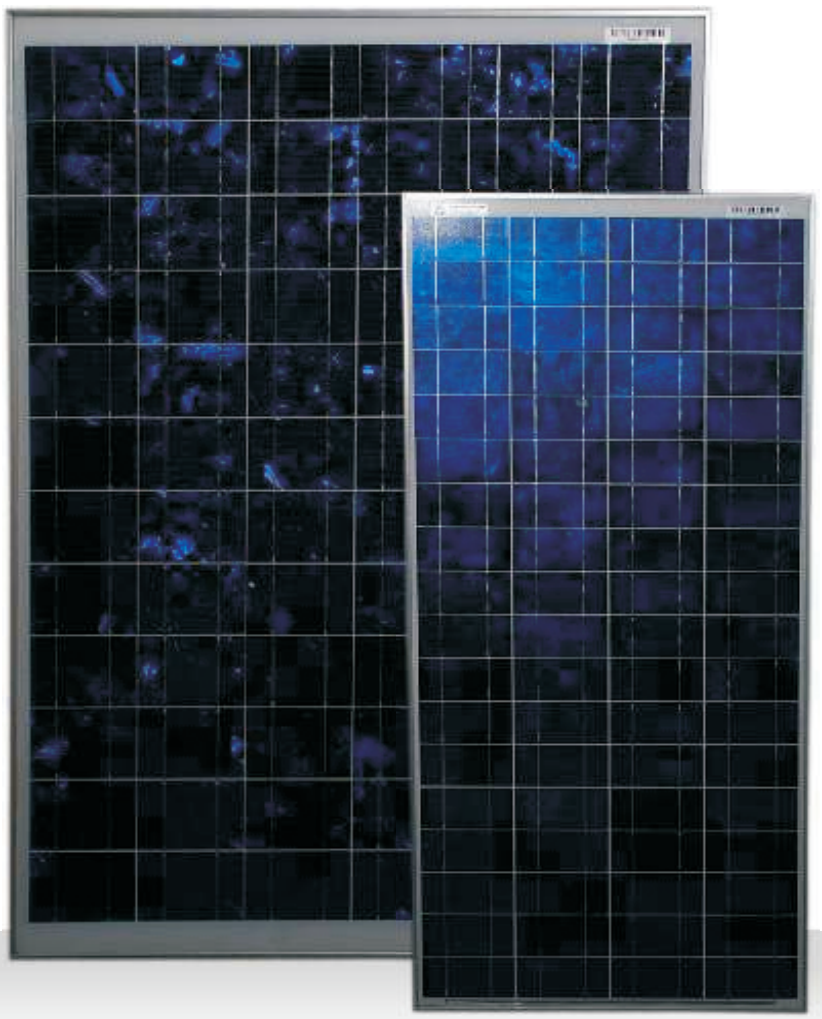
PSS 1280 to 24170

Photovoltaic crystalline modules

POWER 20 YEARS WARRANTY*

MAXIMUM 1000 VOLTS SYSTEM

- 12V/24V
- 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 and rural electrification projects.

- More Energy
- Excellent Value for Money
- IEC 61215 certified
- ISO 9001 certified
- Easy to Install

Premier Solar

* Conditions Apply

Technical Data

Electrical data

The electrical data apply to standard test conditions (STC):
Irradiance at the module level of 1.000 W/m² with spectrum AM 1.5 and a cell temperature of 25 °C.

Model No.	PSS 1280	PSS1290	PSS2490	PSS24100
Wattage Wp	80	90	90	100
Voltage at Max power, Vmax	16.8	16.8	33.6	33.6
Open circuit voltage, Voc	20	20	40	40
Current at Max Power, Imax	4.75	5.48	2.74	2.95
Short circuit current, Isc	5.6	6.2	3.1	3.4

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

Dimensions and weights

Model No.	PSS 1280	PSS1290	PSS2490	PSS24100
Dimensions (mm)	1200 x 530 x 34	1080 x 675 x 34	1080 x 675 x 34	1260 x 675 x 34
Weight (kg)	9	9.5	10.5	11.5

Characteristic data

Model No.	PSS 1280	PSS1290	PSS2490	PSS24100
No of cells	36	36	72	72
Type of cells	Poly / Mono	Poly / Mono	Poly / Mono	Poly / Mono
Module efficiency (%)	12.5	12.1	12.1	11.75

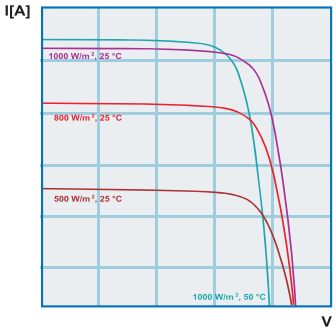
Limits

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

The right is reserved to make technical modifications.

Temperature coefficients

Power	$T_K (P_n)$	- 0.47 % / °C
Open-circuit voltage	$T_K (V_{oc})$	- 0.38 % / °C
Short-circuit current	$T_K (I_{sc})$	+ 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 ISPRA

TÜV CERT
ISO 9001

ESTI
European Solar Test Installation
IEC 61215 Ed.2

PREMIER SOLAR

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/m² with spectrum AM 1.5 and a cell temperature of 25 °C.

Model No.	PSS 12120	PSS24120	PSS24150
Wattage Wp	120	120	150
Voltage at Max power, Vmax	16.8	33.6	33.6
Open circuit voltage, Voc	20	40	40
Current at Max Power, Imax	7.15	2.6-2.9	2.8-3.1
Short circuit current, Isc	8.15	2.5-3.5	3.3-3.7

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

Dimensions and weights

Model No.	PSS 12120	PSS24120	PSS24150
Dimensions (mm)	1500 x 675 x 42	1500 x 675 x 42	1610 x 805 x 42
Weight (kg)	14	14	14.5

Characteristic data

Model No.	PSS 12120	PSS24120	PSS24150
No of cells	36	72	72
Type of cells	Poly / Mono	Poly / Mono	Poly / Mono
Module efficiency (%)	11.85	11.85	11.65

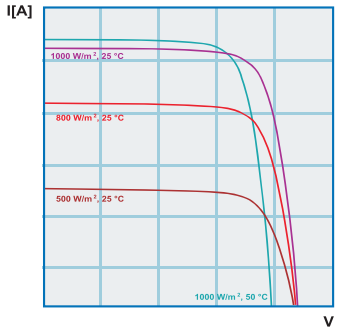
Limits

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

The right is reserved to make technical modifications.

Temperature coefficients

Power	T_K (P_n)	- 0.47 % / °C
Open-circuit voltage	T_K (V_{oc})	- 0.38 % / °C
Short-circuit current	T_K (I_{sc})	+ 0.10 % / °C



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

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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/m² with spectrum AM 1.5 and a cell temperature of 25 °C.

Model No.	PSS 24160	PSS24165	PSS24170
Wattage Wp	160	165	170
Voltage at Max power, Vmax	35.9	36	36
Open circuit voltage, Voc	43.5	43.8	44
Current at Max Power, Imax	4.46	4.58	4.71
Short circuit current, Isc	5.12	5.18	5.25

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

Dimensions and weights

Model No.	PSS 24160	PSS24165	PSS24170
Dimensions (mm)	1610 x 805 x 42	1610 x 805 x 42	1610 x 805 x 42
Weight (kg)	14.5	14.5	15

Characteristic data

Model No.	PSS 24160	PSS24165	PSS24170
No of cells	72	72	72
Type of cells	Poly / Mono	Poly / Mono	Poly / Mono
Module efficiency (%)	12.35	12.80	13.10

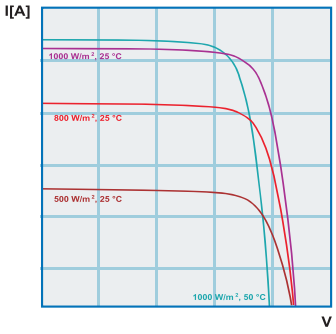
Limits

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

The right is reserved to make technical modifications.

Temperature coefficients

Power	$T_K (P_n)$	- 0.47 % / °C
Open-circuit voltage	$T_K (V_{oc})$	- 0.38 % / °C
Short-circuit current	$T_K (I_{sc})$	+ 0.10 % / °C



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

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