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# **EnergyPal**

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

**Powertrac Solar Project Limited  
PSPL 100-125W  
PSPL P-125**

Also available on the web at  
[EnergyPal.com/powertrac-solar-project-limited-solar-panels/pspl-p-125](http://EnergyPal.com/powertrac-solar-project-limited-solar-panels/pspl-p-125)

PSPL **NANO**  
SERIES

**100 - 125 W**  
Power Range

**0/+5W**  
Tolerance



**High PID Resistant**

PSPL-Series has proved resistance to degradation induced power



**Advanced Glass**

High transmission glass resulting in increased energy production.



**High efficiency and durability**

Manufacturing process certified excellent performance under low light environments.

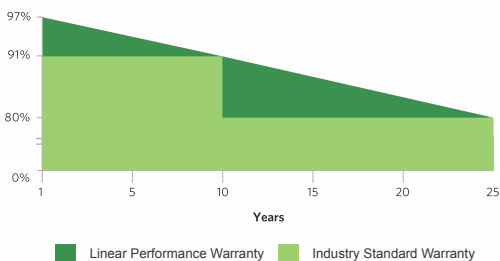


**Robust and corrosion free modules**

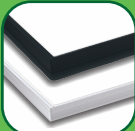
Certified to withstand the most challenging environmental conditions.

**25**

**YEARS LINEAR WARRANTY**

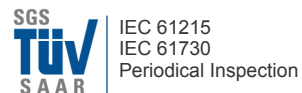


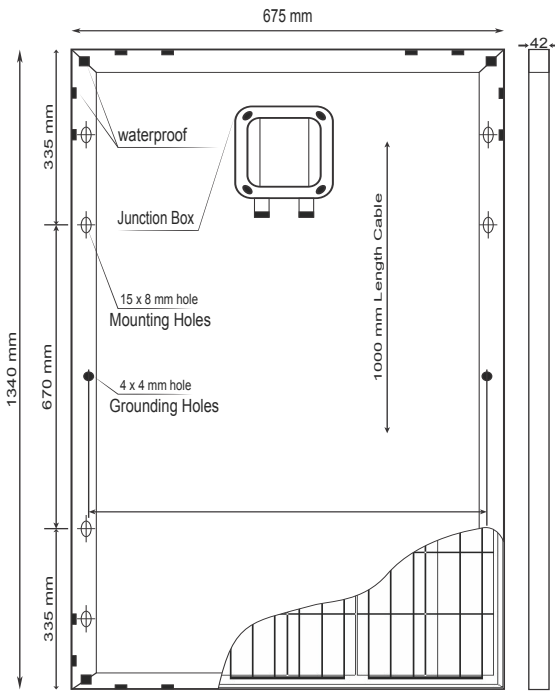
**B / W SHEET**



**B / S FRAME**

**CERTIFICATIONS**





## GENERAL CHARACTERISTICS

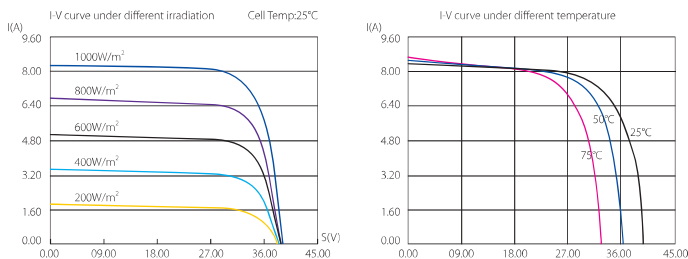
Dimensions	1340 x 675 x 42 mm
Weight	5.85 kg

## PACKAGING

Modules per pallet	26
Pallets / Container 20'	12
Pallets / Container 40'	28

## TEMPERATURE RATING

NOCT	45 ± 2° C
Coefficient of ( $P_{max}$ )	-0.47 % / °C
Coefficient of ( $V_{oc}$ )	-0.34 % / °C
Coefficient of ( $I_{sc}$ )	+0.045 % / °C



## ELECTRICAL DATA

STC	PSPL P-100	PSPL P-110	PSPL P-120	PSPL P-125
Maximum Power at STC ( $P_{max}$ )	100 W	110 W	120 W	125 W
Optimum Operating Voltage ( $V_{mp}$ )	17.5 V	17.5 V	17.7 V	17.7 V
Optimum Operating Current ( $I_{mp}$ )	5.80 A	6.25 A	6.87 A	7.10 A
Open Circuit Voltage ( $V_{oc}$ )	21.5 V	21.5 V	21.5 V	21.5 V
Short Circuit Current ( $I_{sc}$ )	6.25 A	6.90 A	7.40 A	7.85 A
Module efficiency	15.3 %	15.4 %	15.5 %	15.6 %

Standard Test Conditions (STC): air mass AM 1.5, irradiance 1000W/m<sup>2</sup>, cell temperature 25°C

## OPERATIVE CONDITIONS

Power Tolerance	0/+5W
Max. System Voltage	1.000 V
Max. Series Fuse Rating	15 A
Operating Temperature Range	+40° C to 85° C
Max. Static Load, Front (Snow)	5400 Pa
Max. Static Load, Back (Wind)	2400 Pa
Fire Rating	Class A

## MECHANICAL CHARACTERISTICS

Solar Cells	Polycrystalline silicon 156 x 156 mm
Cell arrangement	36 cells in series
Front Cover	Low-iron tempered glass 3.2 mm
Frame	Anodized aluminum alloy
Encapsulant	EVA (ethylene vinyl acetate)
Junction Box	Ip65
Bypass Diodes	3
Cables (length/area)	1000 mm / 4 mm <sup>2</sup>
Connectors	MC4

## Powertrac Solar Projects Ltd.

AN ISO 9001:2008 & NSIC CARE RATED CO.

### CORPORATE OFFICE :

601- Regency Plaza, Above Gloria restaurant, Opp. Rahul Tower, Anandnagar, Ahmedabad. - 380015, Gujarat, India

### FACTORY

Survey No. 248/2, Sakli, Nr. Samla village, Wadhwan Limbdi Rd., Dist. Surendranagar - 363 035, Guj., India.

Toll free no. 1800-833-4615

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UPDATES YOUR NEEDS

**Powertrac Solar Projects Ltd.**

E-mail : sales@powertracsolar.com | Web : www.powertracgroup.com