

**For a Free Quote:**

**Web: [EnergyPal.com/solar](http://EnergyPal.com/solar)**

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# **EnergyPal**

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

**Powertrac Solar Project Limited  
PSPL 260-275W  
PSPL P-270**

Also available on the web at  
[EnergyPal.com/powertrac-solar-project-limited-solar-panels/pspl-p-270](http://EnergyPal.com/powertrac-solar-project-limited-solar-panels/pspl-p-270)

PSPL **MEGA**  
SERIES

**260 - 275 W**

Power Range

Up to  
**16.6%**  
Efficiency

**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.

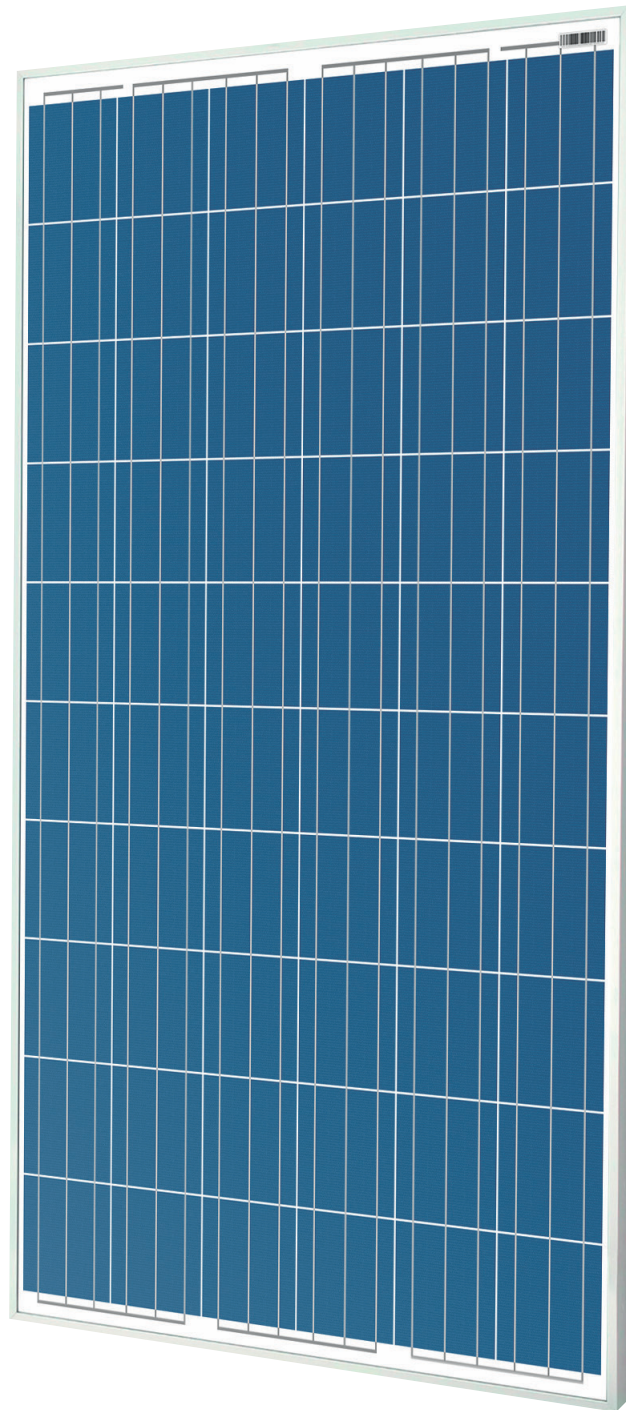
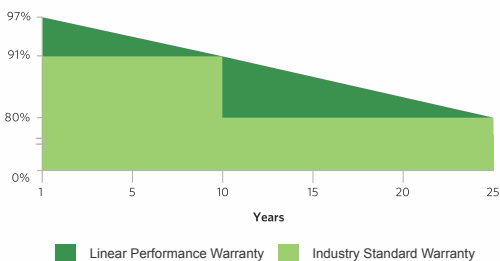


**Robust and corrosion free modules**

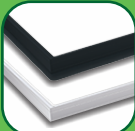
Certified to withstand the most challenging environmental conditions.

**25**

**YEARS LINEAR WARRANTY**

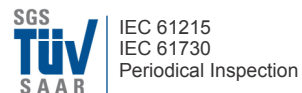


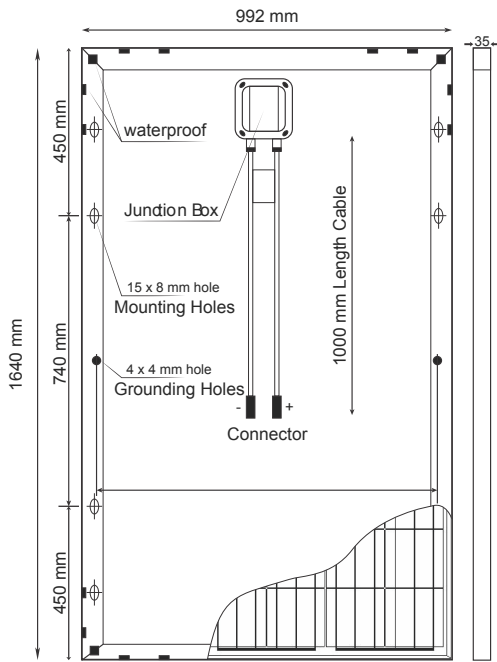
**B / W SHEET**



**B / S FRAME**

**CERTIFICATIONS**





## GENERAL CHARACTERISTICS

Dimensions	1640 X 992 X 35 mm
Weight	20 kg

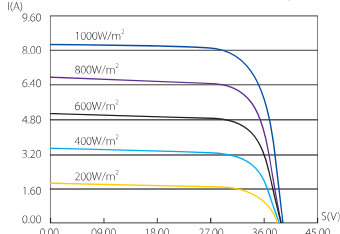
## PACKAGING

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

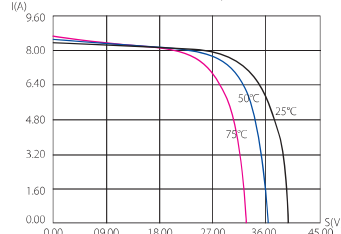
## TEMPERATURE RATING

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

I-V curve under different irradiation Cell Temp: 25°C



I-V curve under different temperature



## ELECTRICAL DATA

STC	PSPL P-260	PSPL P-265	PSPL P-270	PSPL P-275
Maximum Power at STC ( $P_{max}$ )	260 W	265 W	270 W	275 W
Optimum Operating Voltage ( $V_{mp}$ )	30.56 V	30.71 V	30.90 V	31.11 V
Optimum Operating Current ( $I_{mp}$ )	8.51 A	8.63 A	8.75 A	8.87 A
Open Circuit Voltage ( $V_{oc}$ )	37.22 V	37.46 V	37.70 V	37.94 V
Short Circuit Current ( $I_{sc}$ )	9.23 A	9.37 A	9.50 A	9.63 A
Module efficiency	15.98 %	16.28 %	16.58 %	16.88 %

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

## NOCT

NOCT	PSPL P-260	PSPL P-265	PSPL P-270	PSPL P-275
Maximum Power at STC ( $P_{max}$ )	189 W	193 W	197 W	201 W
Optimum Operating Voltage ( $V_{mp}$ )	27.92 V	28.05 V	28.23 V	28.41 V
Optimum Operating Current ( $I_{mp}$ )	6.79 A	6.88 A	6.98 A	7.08 A
Open Circuit Voltage ( $V_{oc}$ )	34.18 V	34.40 V	34.61 V	34.82 V
Short Circuit Current ( $I_{sc}$ )	7.51 A	7.62 A	7.73 A	7.80 A

Nominal Operating Cell Temperature (NOCT): 800W/m<sup>2</sup>, AM 1.5, windspeed 1m/s, ambient temperature 20°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	60 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.

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