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Solar Panel Guide Specification Data Sheet

**Powertrac Solar Project Limited
PSPL 10-20W
PSPL 18W**

Also available on the web at
EnergyPal.com/powertrac-solar-project-limited-solar-panels/pspl-18w

PSPL NANO SERIES

10 - 20 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.

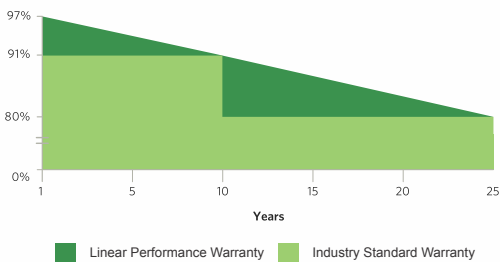


Robust and corrosion free modules

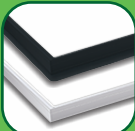
Certified to withstand the most challenging environmental conditions.

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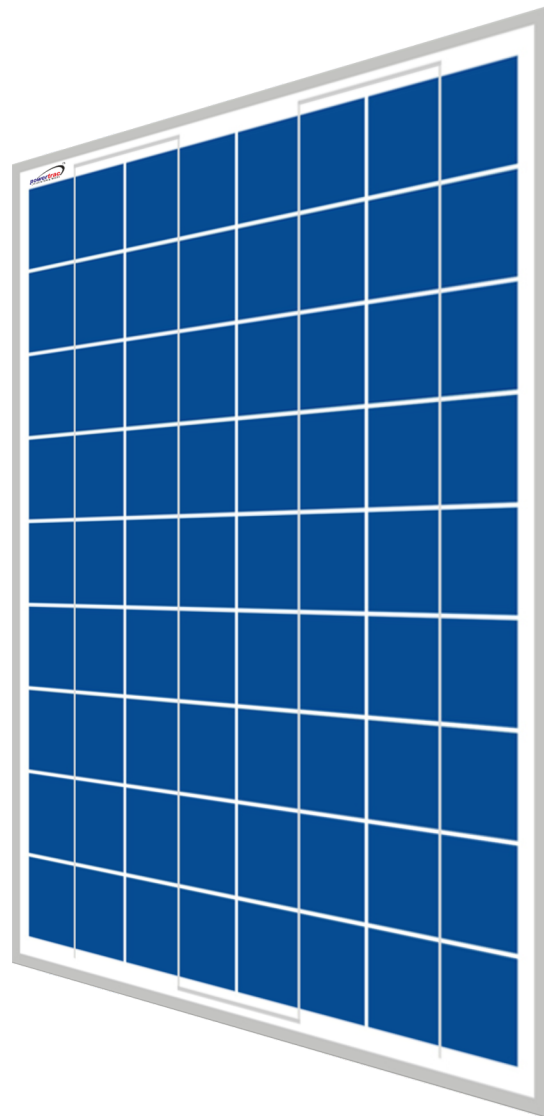
YEARS LINEAR WARRANTY



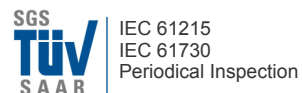
B / W SHEET

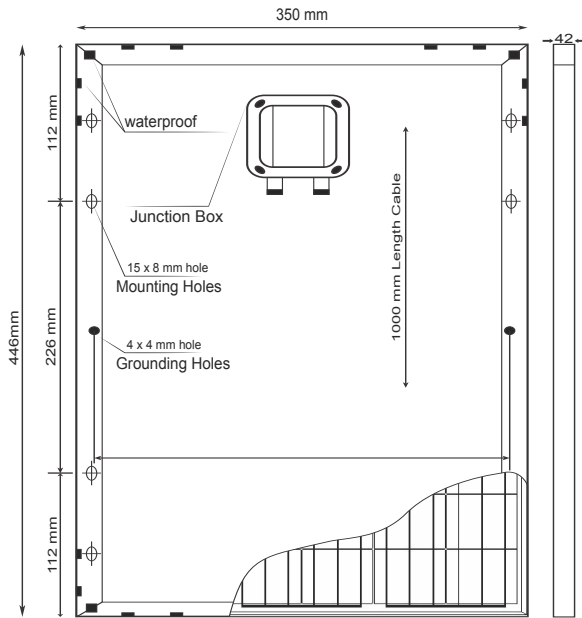


B / S FRAME



CERTIFICATIONS





GENERAL CHARACTERISTICS

Dimensions	350 x 465 x 42 mm
Weight	2.0 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-10	PSPL P-12	PSPL P-18	PSPL P-20
Maximum Power at STC (P_{max})	10 W	12 W	18 W	20 W
Optimum Operating Voltage (V_{mp})	17.5 V	17.5 V	17.7 V	17.7 V
Optimum Operating Current (I_{mp})	0.59 A	0.71 A	1.05 A	1.16 A
Open Circuit Voltage (V_{oc})	21.5 V	21.5 V	21.5 V	21.5 V
Short Circuit Current (I_{sc})	0.62 A	0.75 A	1.10 A	1.20 A

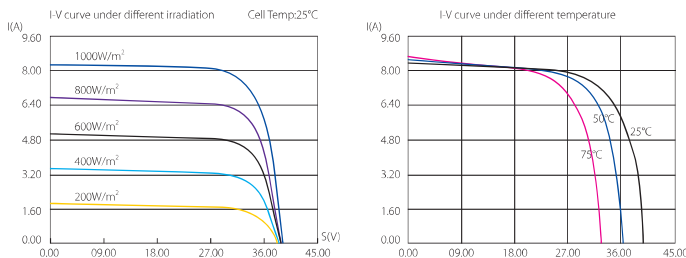
Standard Test Conditions (STC): air mass AM 1.5, irradiance 1000W/m², cell temperature 25°C

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 ²
Connectors	MC4



Powertrac Solar Projects Ltd.

AN ISO 9001:2008 & NSIC CARE RATED CO.

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