

SOLARPOWER-ON™



High efficiency photovoltaic solar panels
Last generation | Higher power output |
Lower BOS | Quality aesthetics

Item: SOLARPOWER-ON-450W
part number: SOLZTK450N30

XUNZEL industrial-grade small photovoltaic solar panels for battery charging and battery maintenance, with an excellent light and spectral response over wide range of wavelength.
25-year Product Warranty | 30-year Performance Warranty

High efficiency (up to 24%)

Optimally designed for efficient, stable and consistent charging of rechargeable batteries in off-grid and backup systems.

Partial Shading Optimisation

Allows solar panels to maintain high power output by preventing a single shaded cell or panel from bottlenecking the electricity flow of the entire system.

Excellent Temperature Coefficient

Plug&Play

Compact size

Optimized design. Lightweight. Maximize available space.

Micro-crack Resistance

Smart and Rugged design

Anti-dust surface to prevent dust from sticking.
Made with materials and components of excellent quality and resistance for a reliable and long service life.
Long-lasting performance, Waterproof, UV resistant, designed for extreme environment.



Industrial grade photovoltaic solar panels

With more than 25 years of experience designing and manufacturing state-of-the-art photovoltaic technology, XUNZEL industrial-grade photovoltaic solar panels for battery charging and battery maintenance have an excellent light and spectral response over wide range of wavelength, suitable in both outdoor, low light and indoor applications.

Manufactured with high quality materials to provide long-term, reliable performance in the field. SOLARPOWER™ Photovoltaic Solar Panels are made with high efficiency solar cells. Robust and ready to be used in all kind of applications, battery charging and powering your applications.

The design allows connecting several solar panels flexibly in series and/or parallel to perfectly meet the custom-specific application's power requirements.
Designed for industrial applications.

Put the power of solar energy into your creations.

XUNZEL ENERGY

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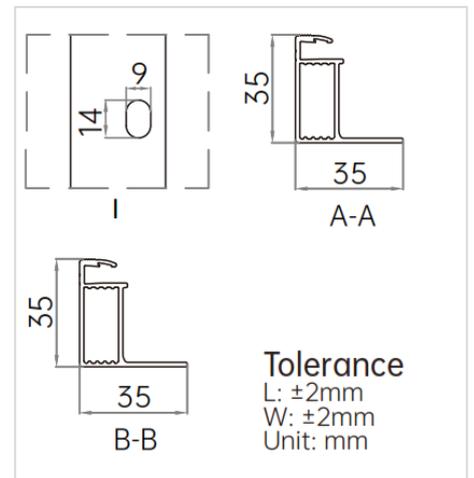
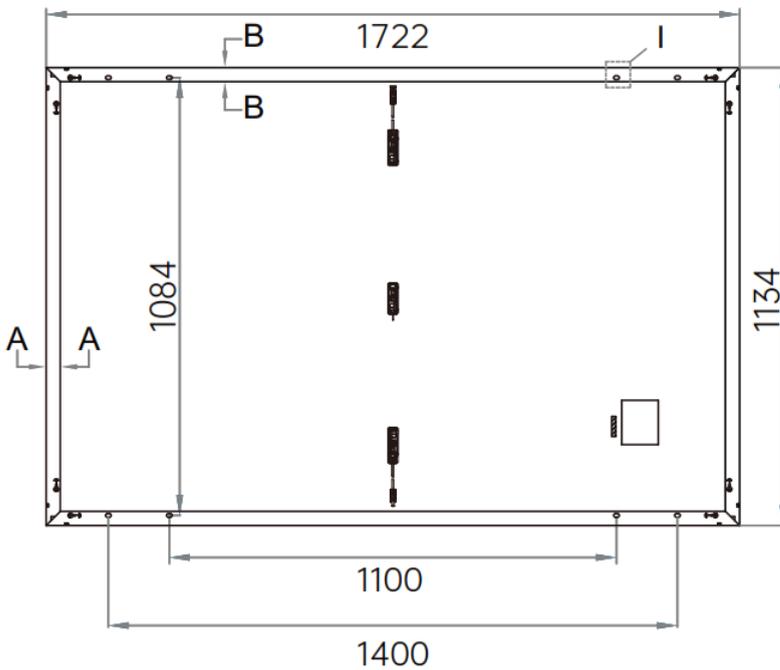
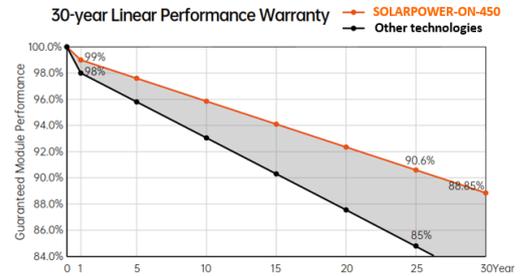
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Technical Specifications

Electrical Characteristics (STC: AM1.5 1000W/m² 25°C NOCT: AM1.5 800W/m² 20°C 1m/s)

Model	SOLARPOWER-ON 450W	
Test Conditions	STC	NOCT
P_{max} [W]	450	339
V_{oc} [V]	40.70	38.44
V_{mp} [V]	33.70	31.82
I_{sc} [A]	13.92	11.26
I_{mp} [A]	13.36	10.66
Module Efficiency	23.0%	

Power Tolerance: 0~ + 3%



Mechanical Specifications

Cell Type	High-performance IBC
Front Cover Glass	Tempered solar glass 3.2mm
Frame	Anodized aluminum
Cable	IEC Solar cable 4mm ² 1200mm
Junction Box	IP68, three bypass diodes
Solar Connector	Universal MC4 type
Dimensions	1722 x 1134 x 35 mm
Weight	21.6 kg ±4%

This solar panel has been designed and manufactured according to:
IEC 61730 and IEC 61215
ISO 9001 Quality Management System
ISO 14001 Environmental Management System
ISO 45001 Occupational Safety and Management System

Temperature Ratings (STC)

Temperature Coefficient of I_{sc}	+ 0.05%/°C
Temperature Coefficient of V_{oc}	- 0.22%/°C
Temperature Coefficient of P_{max}	+ 0.25%/°C

Environmental

Operation Temperature	-40°C to +85°C
Maximum Series Fuse Rating	25A
Protection Class	Class II
I_{sc} and V_{oc} Tolerances	±3%
Maximum System Voltage	1500V DC
Maximum Static Load	Front 5400Pa Back 2400Pa
Hail Test	25mm diameter hail at 23m/s
Fire Rating	IEC Class C