SOLARPOWER™

High efficiency photovoltaic solar panels

XUNZEL industrial-grade photovoltaic solar panels specially designed
for improved battery charging and maintenance.
With extra-long solar cable pre-assembled. Ready to use.
Ideal choice for professional Off-Grid, Off-Shore and Back-Up Solar Systems.

With an excellent light and spectral response over wide range of wavelength.

Higher Power Output

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

- Higher efficiency
- Very Low degradation
- Excellent temperature coefficient

Full Black Design

Advanced design. Easy integration.

Plug&Play

Specially designed to charge 12V, 24V, 36V and 48V batteries with maximum efficiency.
Solar cable included and pre-installed.
Ideal for IoT, IIoT, OoT, integration, motors, robots, mobile.

Compact size

Optimized design. Lightweight. Maximize available space.

Smart and Rugged design

Hardened protective low iron tempered solar glass protects the cells.
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.
Marine degree anodized aluminum alloy frame.

Industrial grade photovoltaic solar panels

With more than 20 years of experience designing and manufacturing state-of-the-art photovoltaic technology, XUNZEL industrial-grade small solar panels for battery charging, trickle-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 electronics.

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

Built for industrial-grade performance. Crafted for maximum durability.

UD9260128M

XUNZEL ENERGY
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RoHS/REACH COMPLIANT

SOLARPOWER™

High efficiency photovoltaic solar panels

xunzel
Applied Solar Energy

Technical Specifications

Model	SOLARPOWER-200W-12V	SOLARPOWER-290W-24V
Code | Order Part Number	SOLZTK200	SOLZTK290
Maximum Power P_{max} [Wp]	**200**	**290**
Nominal Voltage [Vdc]	12	24
Open Circuit Voltage V_{oc} [Vdc]	19.63	42.14
Maximum Power Point Voltage V_{mpp} [Vdc]	17.09	36.30
Short-Circuit Current I_{sc} [Adc]	12.10	8.19
Maximum Power Point Current I_{mpp} [Adc]	11.70	7.98
Maximum System Voltage SCII [Vdc]	1500	1500
Dimensions (mm)	1020x 992x 30	1320x 1010x 30
Net Weight (kg)	12.30	17.60
Pre-assembled Cables (red "+" and black "-")	2 Cables 400cm (red "+" and black "-") | 2 x 4.00mm2	
Junction Box	IP67	
Operating Temperature Range	-40°C ~ +85°C (-40°F ~ +185°F)	
Normal Operating Conditions Temp. (NOCT)	45 ± 2°C	
Temperature Coefficient of Power | Current | Voltage	- 0.26%/K | + 0.05%/K | - 0.22%/K	
Maximum Series Fuse Rating	12A	
Maximum Reverse Current	20A	
Materials	Frame: Anodized Aluminium Alloy | Solar Glass: 3.2mm AR Coating Low-iron and tempered (EN 12150) | Mechanical Load Front 5400Pa | Hail 40mm 23m/s	
Safety Class	Class II	
Compliance	CE, UKCA, FCC, RoHS and REACH Guarantees: manufacturing defects and materials 12 years | 90% output power 10 years | 80% output power 20 years	

Ingress Protection (IP) rating: IP67

Operating Temperature: −40°C ~ 85°C | Storage Temperature : -40°C ~ +90°C

All values measured at Standard Condition: 1 sun (= 1000 W/m²), Air Mass 1.5, 25°C

Our photovoltaic (PV) modules are engineered and manufactured for reliable, high-performance operation in real-world conditions. They are designed and tested in accordance with relevant sections of IEC 61215 / IEC 61730, including accelerated UV aging, temperature and humidity cycling, damp heat, thermal shock, mechanical shock, impact, vibration, ingress protection, and resistance to exposure from chemicals and oils.

Please feel free to contact us if you require any additional technical information. We have an in-house laboratory and state-of-the-art equipment to perform a wide range of additional, application-specific tests.

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CE UK CA FC
RoHS/REACH COMPLIANT

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Technical Specifications

SOLARPOWER-200W

p|n: SOLZTK200
Pmax: 200W
Dim.: 1020x 992x 30

SOLARPOWER-290W

p|n: SOLZTK290
Pmax: 290W
Dim.: 1320x 1010x 30

UD9260128M

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