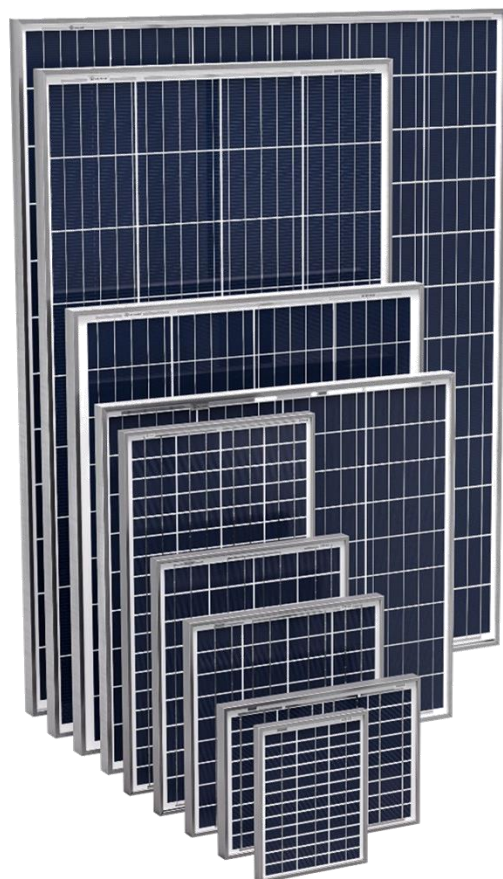


SOLARPOWERTM Series. Photovoltaic Solar Panel Battery Chargers and Maintainers



SOLARPOWERTM Series - XUNZEL

High-Efficiency Photovoltaic Solar Panel.

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.

Product Overview

- Specially designed to charge **12V, 24V and 48V batteries** with maximum efficiency. Ideal for safe Off-Grid, Off-Shore and Back-up Solar Systems.
- **High-Quality materials**, reliability and excellent performance for all weather conditions.
- **Solar Cable included and pre-installed.** No need to purchase cable separately.
- Safe and Easy to install and **Ready-to-Connect** directly to the solar charge controller.
- **Thin and Lightweight.**
- Hardened protective **low iron tempered solar glass** protects the cells.
- **Marine grade anodized aluminum alloy frame**
- **Waterproof and Weatherproof.** Sealed and **Corrosion resistant** junction box to protect electrical connections.
- **Expandable.** Higher power systems can be achieved easily connecting more strings in parallel (for more current) or series (for more voltage).
- **High efficiency and quality crystalline Silicon (c-Si) Solar PV modules.**
- **Positive Tolerance.**
- **100% Individually Certified and Tested** before shipping (Flash Test + EL Test)
- **Secure Individual Packaging**, ready to ship anywhere.

Models

SOLARPOWER	5W 12V pre-installed cable 200cm
SOLARPOWER	10W 12V pre-installed cable 200cm
SOLARPOWER	15W 12V pre-installed cable 200cm
SOLARPOWER	20W 12V pre-installed cable 200cm
SOLARPOWER	20W 24V pre-installed cable 400cm + integrated bracket
SOLARPOWER	30W 12V pre-installed cable 200cm
SOLARPOWER	30W 24V pre-installed cable 400cm + integrated bracket
SOLARPOWER	60W 12V pre-installed cable 400cm
SOLARPOWER	80W 12V pre-installed cable 400cm
SOLARPOWER	120W 12V pre-installed cable 400cm
SOLARPOWER	100W 24V pre-installed cable 400cm
SOLARPOWER	185W 24V pre-installed cable 400cm
SOLARPOWER	190W 12V pre-installed cable 400cm



SOLARPOWER 5W to 30W | 12V
include 2m single cable (2 core)



SOLARPOWER 60W to 190W
include 4m cable (2-cable)



SOLARPOWER 20W-24V and
30W-24V with integrated
bracket and 4 m. cables.

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SOLARPOWER™ Series.

Photovoltaic Solar Panel Battery Chargers and Maintainers

Specifications

Model	SOLARPOWER- 5W - 12V	SOLARPOWER- 10W - 12V	SOLARPOWER- 15W - 12V	SOLARPOWER- 20W - 12V	SOLARPOWER- 20W - 24V	SOLARPOWER- 30W - 12V	SOLARPOWER- 30W - 24V	SOLARPOWER- 60W - 12V	SOLARPOWER- 80W - 12V	SOLARPOWER- 100W - 24V	SOLARPOWER- 120W - 12V	SOLARPOWER- 185W - 24V	SOLARPOWER- 190W - 12V
Code Order Part Number	SOLZTK5	SOLZTK10	SOLZTK15	SOLZTK20	SOLZTK2024Y	SOLZTK30	SOLZTK3024Y	SOLZTK60	SOLZTK80	SOLZTK10024	SOLZTK120	SOLZTK185	SOLZTK190
Maximum Power P _{max} [Wp]	5	10	15	20	20	30	30	60	80	100	120	185	190
Nominal Voltage [Vdc]	12	12	12	12	24	12	24	12	12	24	12	24	12
Open Circuit Voltage V _{oc} [Vdc]	21.20	21.20	22.00	21.20	43.20	22.00	43.20	20.20	23.00	44.95	23.80	47.55	21.36
Maximum Power Point Voltage V _{mpp} [Vdc]	18.00	18.00	18.70	18.00	36.00	18.70	36.00	18.70	18.30	38.31	20.10	39.79	17.51
Short-Circuit Current I _{sc} [Adc]	0.30	0.59	0.85	1.20	0.61	1.73	0.92	3.46	4.63	2.67	6.36	4.95	11.65
Maximum Power Point Current I _{mp} [Adc]	0.28	0.56	0.81	1.12	0.56	1.60	0.83	3.21	4.37	2.61	5.98	4.65	10.85
Maximum System Voltage SCII [Vdc]	600	600	600	600	1000	600	1000	600	1000	1000	1000	1000	1000
Dimensions (mm)	240x 180x 18	240x 340x 25	345x 340x 25	420x 340x 25	420x 340x 25	604x 340x 25	430x 505x 25	604x 674x 30	768x 676x 35	800x 680x 35	1020x 676x 30	1020x 986x 35	1000x 996x 30
Net Weight (kg)	0.60	1.00	1.40	1.60	2.00	2.20	2.80	5.10	6.70	5.80	7.80	11.40	11.00
Pre-assembled Cables (red “+” and black “-”)	1 Cable (2-cores) 200cm 2x 1.00mm ² (20W-24V and 30W-24V:400cm 2x 0.75mm ²)							2 Cables 400cm (red “+” and black “-”) 2 x 4.00mm ²					
Junction Box	IP65/67												
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	- 0.35%/K + 0.05%/K - 0.27%/K												
Maximum Series Fuse Rating	12A							12A					15A
Maximum Reverse Current	12A							20A					
Bypass Schottky Diode	1 pc							2 pcs					
Materials	Frame: Anodized Aluminum Alloy Solar Glass: 3.2mm AR Coating Low-iron and tempered (EN 12150) Mechanical Load 5400Pa Encapsulant: Transparent EVA (Ethylene-Vinyl-Acetate) High-quality film TPT / TPE /BBF Solar Cells interconnection with hi-purity copper 99,98%												
Standards	CE UKCA RoHs3 and REACH Compliant Hg Free WEEE Compliant Manufactured and Tested according to IEC 61215 / IEC 61730 Electrical data – Specifications at Standard Test Conditions (STC): 1000W/m² solar irradiance, AM 1.5, 25 °C cell temperature												
PLUS	SOLARPOWER 20W-24V y 30W-24V models with integrated U-shape bracket												



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info@xunzel.com
www.xunzel.com

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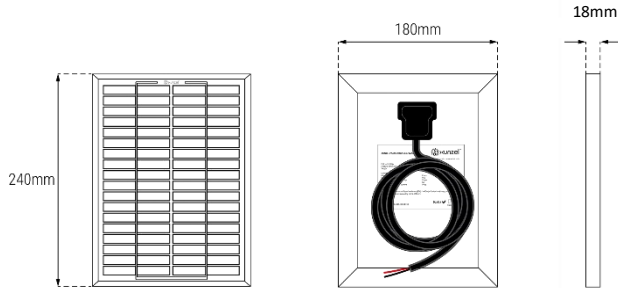
SOLARPOWERTM Series. Photovoltaic Solar Panel Battery Chargers and Maintainers

Drawings (mm)

SOLARPOWER-5W-12V

Code | Order Part Number: SOLZTK5

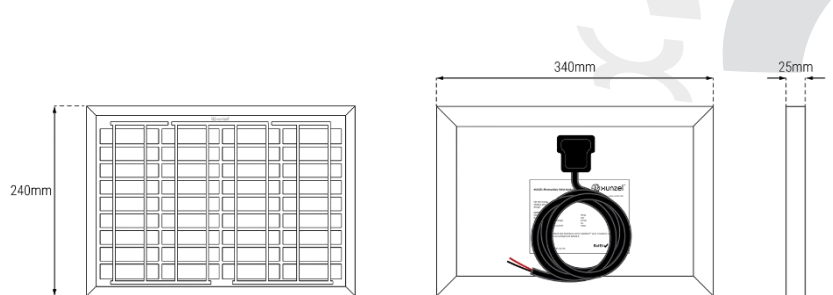
240 x 180 x 18 mm



SOLARPOWER-10W-12V

Code | Order Part Number: SOLZTK10

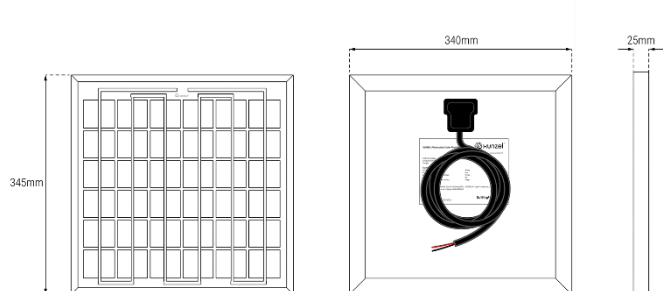
240 x 340 x 25 mm



SOLARPOWER-15W-12V

Code | Order Part Number: SOLZTK15

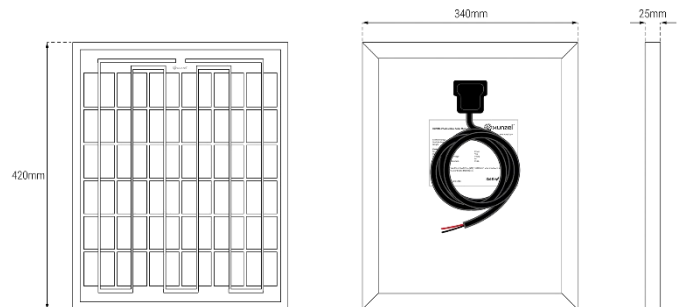
345 x 340 x 25 mm



SOLARPOWER-20W-12V

Code | Order Part Number: SOLZTK20

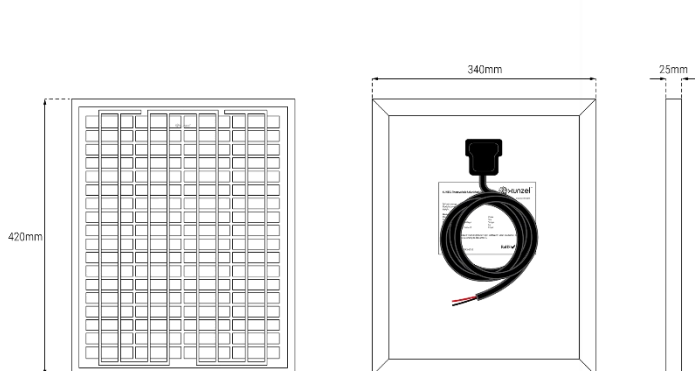
420 x 340 x 25 mm



SOLARPOWER-20W-24V

Code | Order Part Number: SOLZTK2024Y

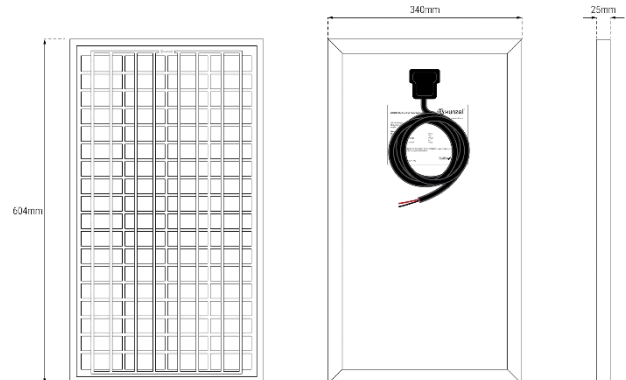
420 x 340 x 25 mm



SOLARPOWER-30W-12V

Code | Order Part Number: SOLZTK30

604 x 340 x 25 mm



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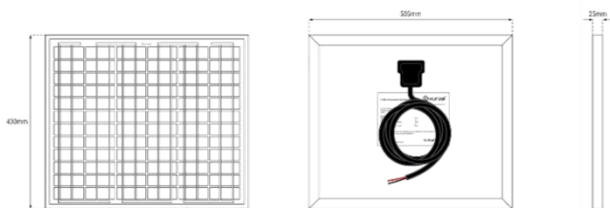


SOLARPOWER™ Series. Photovoltaic Solar Panel Battery Chargers and Maintainers

Drawings (mm)

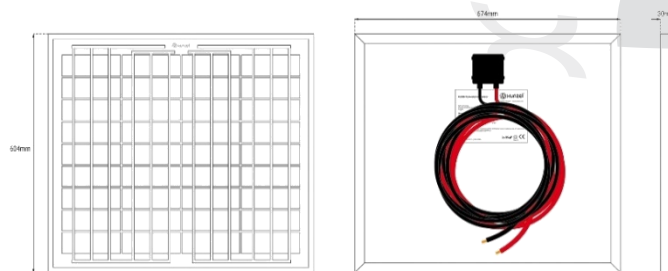
SOLARPOWER-30W-24V

Code | Order Part Number: SOLZTK3024Y
430 x 505 x 25 mm



SOLARPOWER-60W-12V

Code | Order Part Number: SOLZTK60
604 x 674 x 30 mm



SOLARPOWER-80W-12V

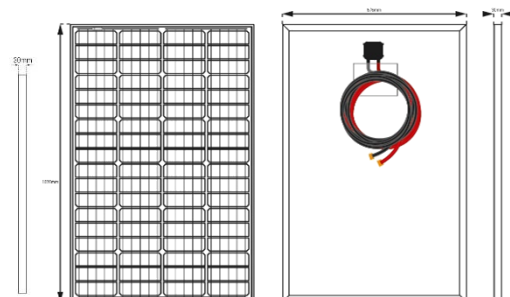
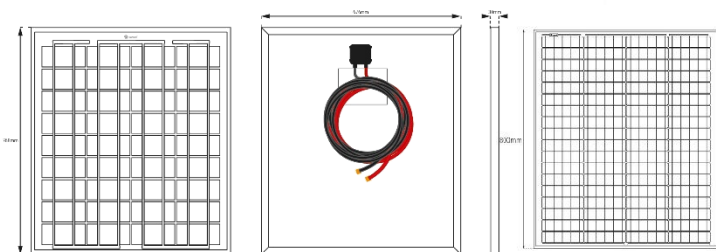
Code | Order Part Number: SOLZTK80
768 x 676 x 35 mm

SOLARPOWER-100W-24V

Code | Order Part Number: SOLZTK10024
800 x 680 x 35 mm

SOLARPOWER-120W-12V

Code | Order Part Number: SOLZTK120
1020 x 676 x 30 mm

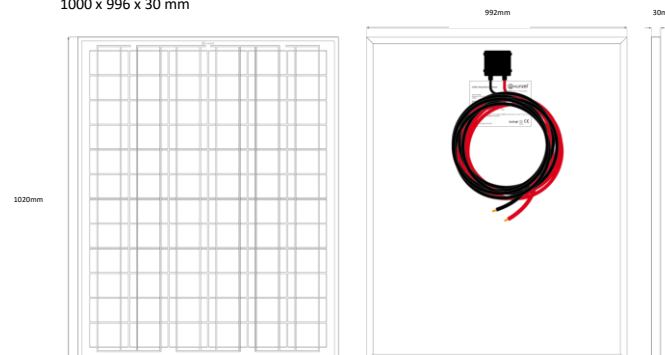
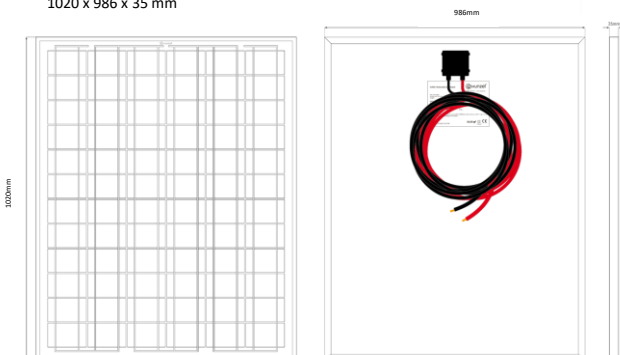


SOLARPOWER-185W-24V

Code | Order Part Number: SOLZTK185
1020 x 986 x 35 mm

SOLARPOWER-190W-12V

Code | Order Part Number: SOLZTK190
1000 x 996 x 30 mm



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SOLARPOWER™ Series. Photovoltaic Solar Panel Battery Chargers and Maintainers

SOLARPOWER-5W-12V

Code | Order Part Number: SOLZTK5
240 x 180 x 18 mm



SOLARPOWER-10W-12V

Code | Order Part Number: SOLZTK10
240 x 340 x 25 mm



SOLARPOWER-15W-12V

Code | Order Part Number: SOLZTK15
345 x 340 x 25 mm



SOLARPOWER-20W-12V

Code | Order Part Number: SOLZTK20
420 x 340 x 25 mm



SOLARPOWER-20W-24V

Code | Order Part Number: SOLZTK2024Y
420 x 340 x 25 mm



SOLARPOWER-30W-12V

Code | Order Part Number: SOLZTK30
604 x 340 x 25 mm



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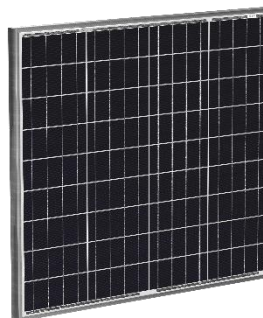
SOLARPOWER-30W-24V

Code | Order Part Number: SOLZTK3024Y
430 x 505 x 25 mm



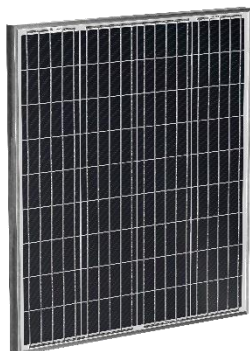
SOLARPOWER-60W-12V

Code | Order Part Number: SOLZTK60
604 x 674 x 30 mm



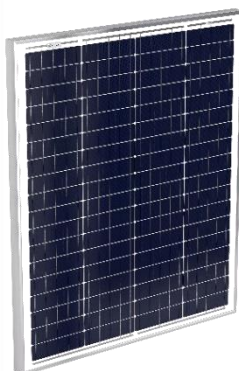
SOLARPOWER-80W-12V

Code | Order Part Number: SOLZTK80
768 x 676 x 35 mm



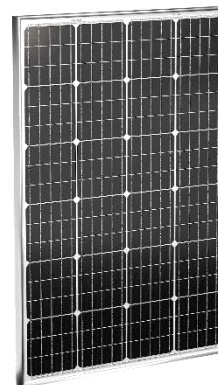
SOLARPOWER-100W-24V

Code | Order Part Number: SOLZTK10024
800 x 680 x 35 mm



SOLARPOWER-120W-12V

Code | Order Part Number: SOLZTK120
1020 x 676 x 30 mm



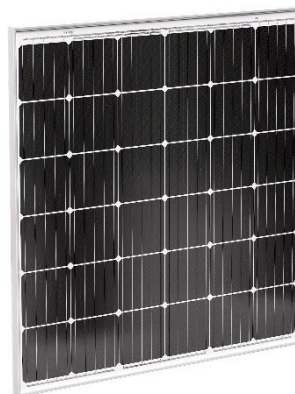
SOLARPOWER-185W-24V

Code | Order Part Number: SOLZTK185
1020 x 986 x 35 mm



SOLARPOWER-190W-12V

Code | Order Part Number: SOLZTK190
1000 x 996 x 30 mm



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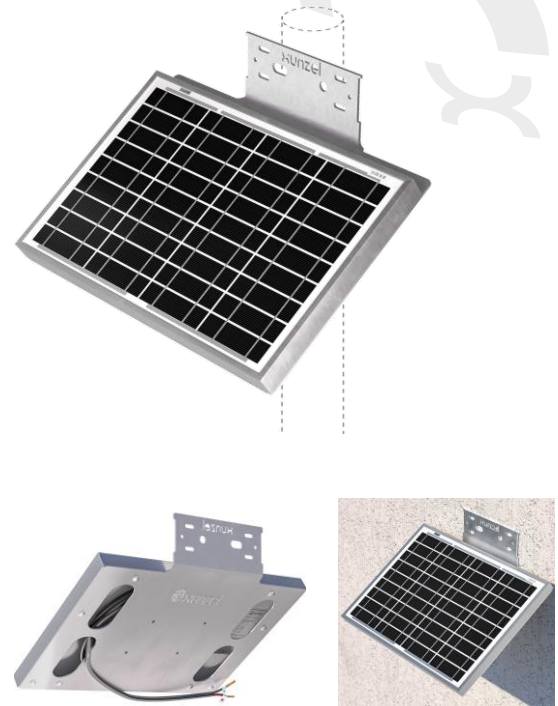
SOLARPOWER-5W-12V with bracket

Code | Order Part Number: SOLZTK5B



SOLARPOWER-10W-12V with bracket

Code | Order Part Number: SOLZTK10B



SOLARPOWER-15W-12V with bracket

Code | Order Part Number: SOLZTK15B



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