

# SOLARPOWER™ Series. Photovoltaic Solar Panel Battery Chargers and Maintainers



## SOLARPOWER™ 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   <b>24V</b>   pre-installed cable 400cm + integrated bracket
SOLARPOWER	30W   12V   pre-installed cable 200cm
SOLARPOWER	30W   <b>24V</b>   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   <b>24V</b>   pre-installed cable 400cm
SOLARPOWER	185W   <b>24V</b>   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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## 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 <sub>max</sub> [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 <sub>oc</sub> [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 <sub>mpp</sub> [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 <sub>sc</sub> [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 <sub>mp</sub> [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)	240x180x18	240x340x25	345x340x25	420x340x25	420x340x25	604x340x25	430x505x25	604x674x30	768x676x30	800x680x30	1020x676x30	1020x1000x30	1020x992x30
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 <sup>2</sup> (20W-24V and 30W-24V:400cm   2x 0.75mm <sup>2</sup> )						2 Cables 400cm (red "+" and black "-")   2 x 4.00mm <sup>2</sup>						
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/m <sup>2</sup> 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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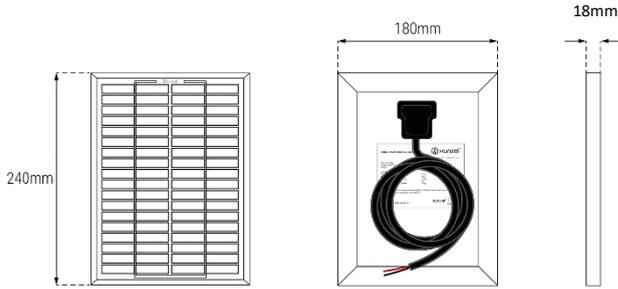
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# SOLARPOWER™ Series. Photovoltaic Solar Panel Battery Chargers and Maintainers

## Drawings (mm)

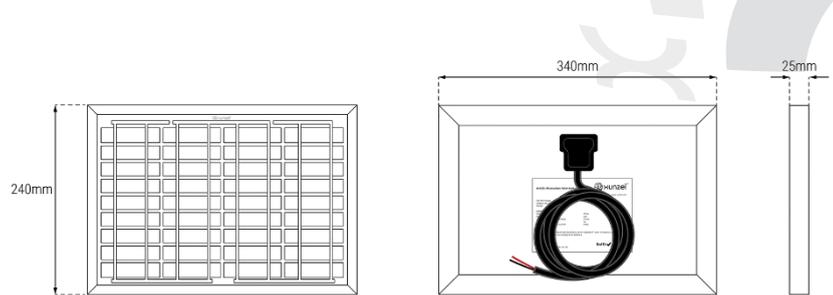
### SOLARPOWER-5W-12V

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



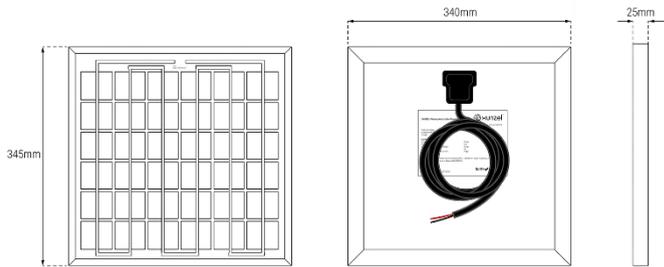
### SOLARPOWER-10W-12V

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



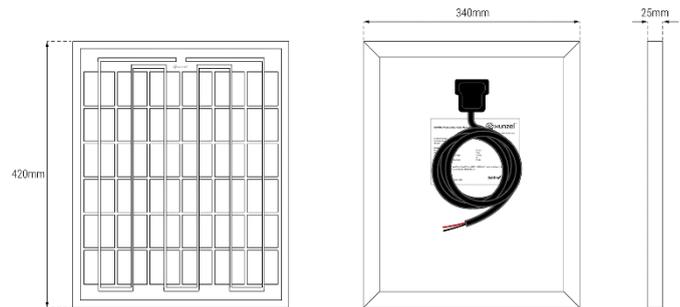
### SOLARPOWER-15W-12V

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



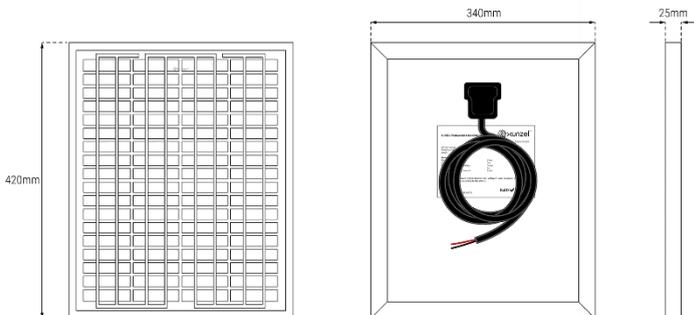
### SOLARPOWER-20W-12V

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



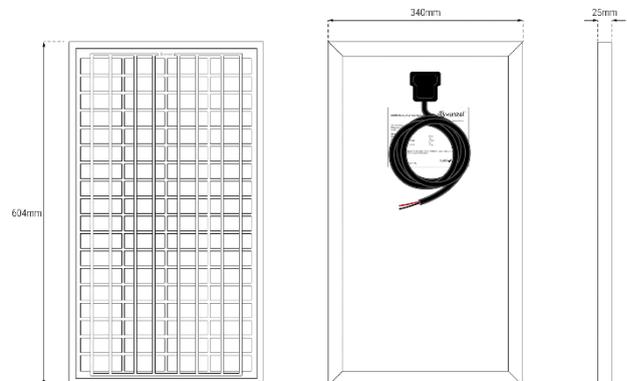
### SOLARPOWER-20W-24V

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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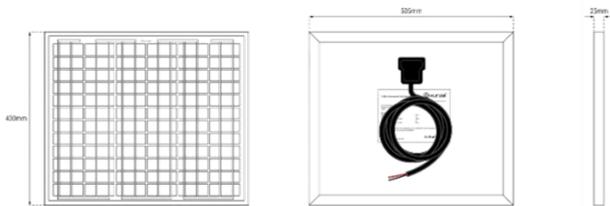


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## Drawings (mm)

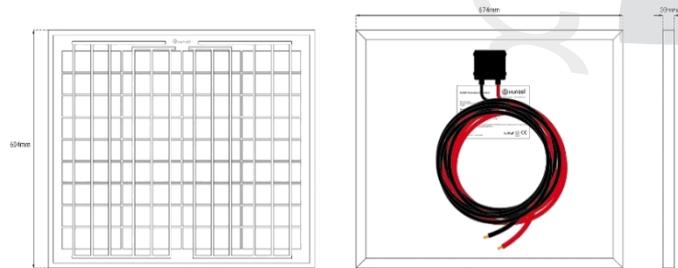
### SOLARPOWER-30W-24V

Code | Order Part Number: SOLZTK3024V  
430 x 505 x 25 mm



### SOLARPOWER-60W-12V

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



### SOLARPOWER-80W-12V

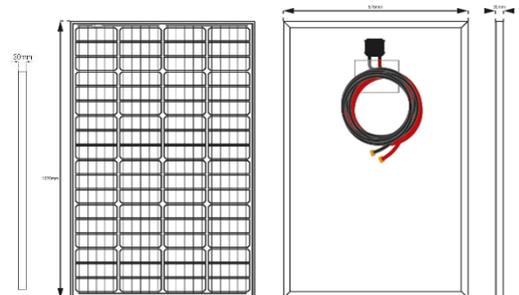
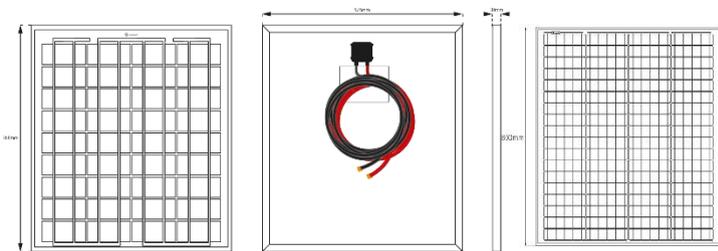
Code | Order Part Number: SOLZTK80  
768 x 676 x 30 mm

### SOLARPOWER-100W-24V

Code | Order Part Number: SOLZTK10024  
800 x 680 x 30 mm

### SOLARPOWER-120W-12V

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

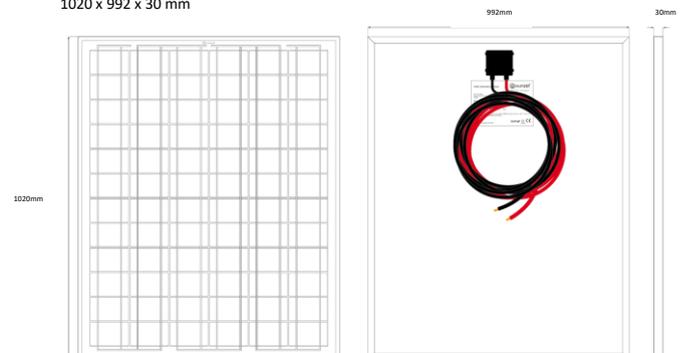
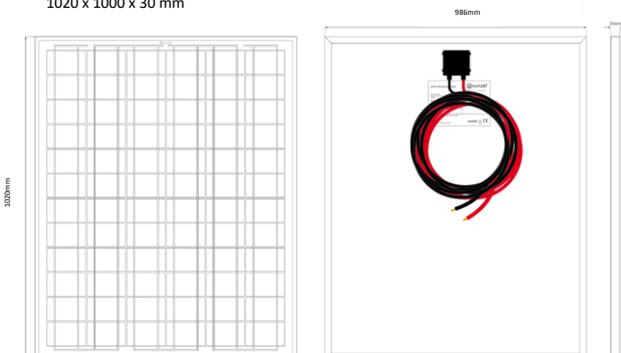


### SOLARPOWER-185W-24V

Code | Order Part Number: SOLZTK185  
1020 x 1000 x 30 mm

### SOLARPOWER-190W-12V

Code | Order Part Number: SOLZTK190  
1020 x 992 x 30 mm



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## 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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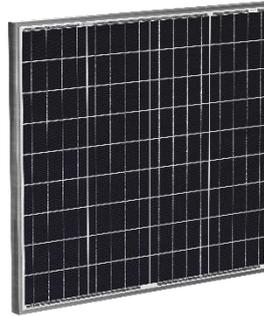
## SOLARPOWER-30W-24V

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 30 mm



## SOLARPOWER-100W-24V

Code | Order Part Number: SOLZTK10024  
800 x 680 x 30 mm



## SOLARPOWER-120W-12V

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



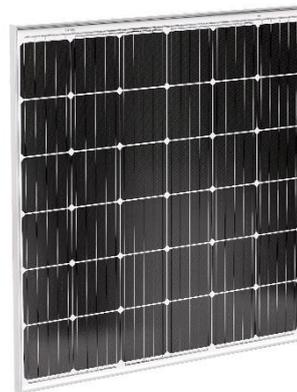
## SOLARPOWER-185W-24V

Code | Order Part Number: SOLZTK185  
1020 x 1000 x 30 mm



## SOLARPOWER-190W-12V

Code | Order Part Number: SOLZTK190  
1020 x 992 x 30 mm



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# SOLARPOWER™ Series. Photovoltaic Solar Panel Battery Chargers and Maintainers

## 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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