

# SOLARPOWER-HD™ Series



## SOLARPOWER-HD™ Series - XUNZEL

High-Efficiency Photovoltaic Solar Panel  
Ultra-Thin, Lightweight and Flexible

### Product Overview

- Specially Designed to charge 12V and 24V batteries with maximum efficiency and optimum performance.
- High-Quality materials for all climatic conditions. IT WORKS!
- High-Quality Solar Cable included and pre-installed.
- Ready-to-Connect directly to the charger controller.
- Ultra-Thin (3mm), Lightweight and Flexible.
- Easy-to-install. Ready-to-connect. Stainless Steel Rings (Ø10 mm)
- Secure and easy wiring. Includes 3 meters pre-assembled 2-core, single solar cable.
- Completely Waterproof and Weatherproof junction box (IP67).
- High-Efficiency IBC all-back contact Monocrystalline Silicon Solar Photovoltaic Cells.
- Specially designed for 12V Off-Grid & Off-Shore Battery Charging Systems.
- Easy to connect in series for 24V systems.
- With high-efficiency bypass Schottky diodes included
- Higher power systems can be achieved easily connecting more strings in parallel (for more current) or series (for more voltage)
- New Design. All-Black Module
- Front-side junction box for a perfect assembly in flat surfaces
- High-performance and very reliable
- High Quality. 100% Flash and Electroluminescence-EL Tested
- With marine grade durability
- Ideal for marine, caravan, trucks, etc.



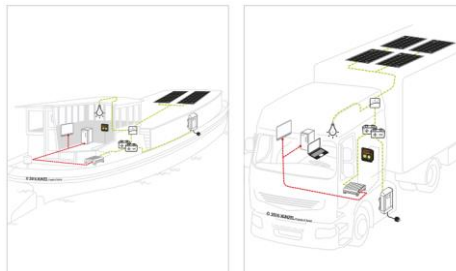
IP67 Protection



Stainless Steel Rings Ø10mm

### Available Models

- SOLARPOWER-HD 20W-12V
- SOLARPOWER-HD 50W-12V
- SOLARPOWER-HD 110W-12V
- SOLARPOWER-HD 120W-12V



XU9230102MA

Industry Leading Technology for Off-Grid, Off-Shore and Backup Power Applications



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## Technical Specifications

Model	SOLARPOWER-HD-20W 12V	SOLARPOWER-HD-50W 12V	SOLARPOWER-HD-110W 12V	SOLARPOWER-HD-120W 12V
Part Number   XUNZEL Code	SPHD20	SPHD50	SPHD110	SPHD120
Maximum Power P <sub>max</sub>	20W	50W	110W	120W
Nominal Voltage	12V			
Open Circuit Voltage V <sub>OC</sub>	23.30V	20.80V	21.90V	23.30V
Maximum Power Point Voltage V <sub>MPP</sub>	19.80V	17.36V	18.56V	19.80V
Short-Circuit Current I <sub>SC</sub>	1.07A	3.11A	6.32A	6.42A
Maximum Power Point Current I <sub>MPP</sub>	1.02A	2.88A	5.97A	6.06A
Maximum System Voltage SCII	45VDC			
Cells	IBC SUNPOWER Cell III-GEN   24.40%			
Dimensions (mm)	500 x 310 x 3 mm	600 x 500 x 3 mm	1100 x 560 x 3 mm	1100 x 560 x 3 mm
Net Weight (kg)	0.70kg	1.35kg	2.50kg	2.50kg
Pre-assembled Cables	2-core cable (3 meters)   Pre-cut 1.5cm   2x1,5mm <sup>2</sup>		2-core cable (3 meters)   Pre-cut 1.5cm   2x2,5mm <sup>2</sup>	2-core cable (3 meters)   Pre-cut 1.5cm   2x2,5mm <sup>2</sup>
Grommets	6 pcs. Stainless Steel. Inner Ø10mm	4 pcs. Stainless Steel. Inner Ø10mm	6 pcs. Stainless Steel. Inner Ø10mm	6 pcs. Stainless Steel. Inner Ø10mm
Junction Box	IP67, Front-side			
Schottky Bypass Diode	2 pcs	2 pc	2 pcs	2 pcs
Operating Temperature	-40°C to +85°C			
Temperature Coefficient of Power	-0.30%/°C			
Temperature Coefficient of V <sub>OC</sub>	-1.74mV/°C			
Temperature Coefficient of I <sub>SC</sub>	2.20mA/°C			
Flexible Bending	30° maximum   maximum bending arch height: 40mm			
Manufactured and Tested according to IEC 61215 / IEC 61730 CE   UKCA   RoHS3   REACH Electrical data – Specifications at Standard Test Conditions (STC): 1000W/m <sub>2</sub> solar irradiance, AM 1.5, 25 °C cell temperature				

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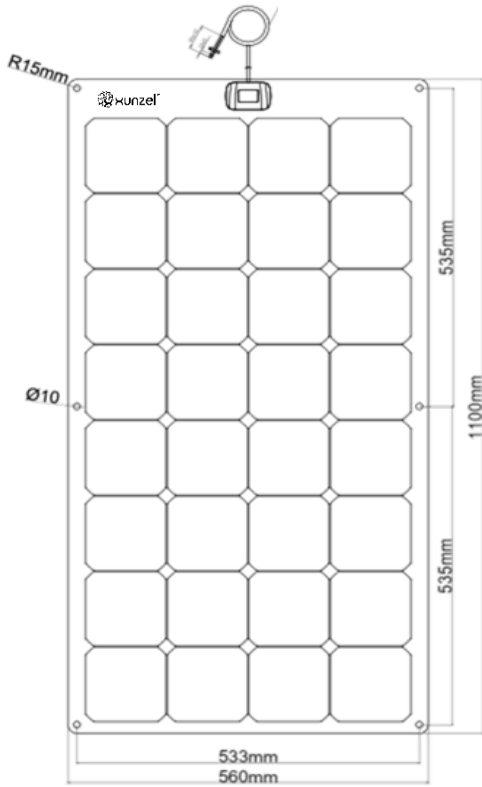
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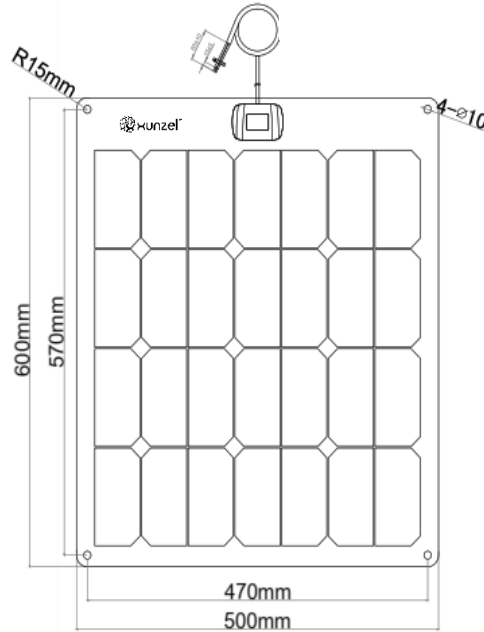


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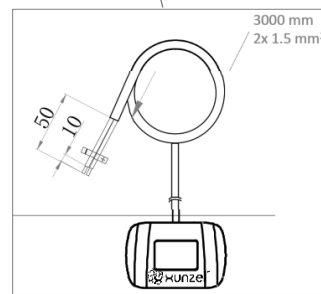
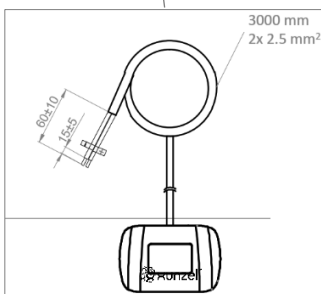
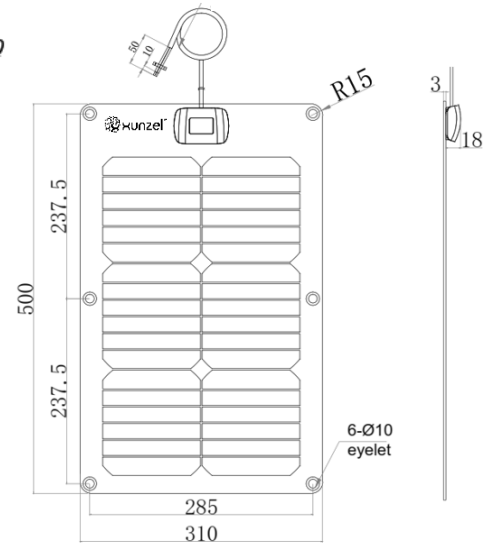
SOLARPOWER-HD-120W 12V  
SOLARPOWER-HD-110W 12V



SOLARPOWER-HD-50W 12V



SOLARPOWER-HD-20W 12V



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