

SOLARPOWER-HD™ Series

SOLARPOWER-HD™ Series - XUNZEL

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

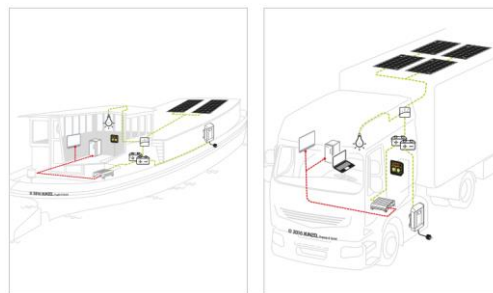
Product Overview

- 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.



Available Models

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



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



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Technical Specifications

Model	SOLARPOWER-HD-50W 12V	SOLARPOWER-HD-110W 12V
Maximum Power P_{max}	50W	110W
Nominal Voltage	12V	
Open Circuit Voltage V_{OC}	20.80V	21.90V
Maximum Power Point Voltage V_{MPP}	17.36V	18.56V
Short-Circuit Current I_{SC}	3.11A	6.32A
Maximum Power Point Current I_{MPP}	2.88A	5.97A
Maximum System Voltage SCII	45VDC	
Cells	IBC SUNPOWER Cell III-GEN 23.70%	
Dimensions (mm)	600 x 500 x 3 mm	1100 x 560 x 3 mm
Net Weight (kg)	1.35kg	2.50kg
Pre-assembled Cables	2-core cable (3 meters) Pre-cut 1.5cm 2x1,5mm ²	2-core cable (3 meters) Pre-cut 1.5cm 2x2,5mm ²
Grommets	4 pcs. Stainless Steel. Inner Ø10mm	6 pcs. Stainless Steel. Inner Ø10mm
Junction Box	IP67, Front-side	
Schottky Bypass Diode	2 pc	2 pcs
Operating Temperature	-40°C to +85°C	
Temperature Coefficient of Power	-0.30%/°C	
Temperature Coefficient of V_{OC}	-1.74mV/°C	
Temperature Coefficient of I_{SC}	2.20mA/°C	
Manufactured and Tested according to IEC 61215 / IEC 61730 Electrical data – Specifications at Standard Test Conditions (STC): 1000W/m ² solar irradiance, AM 1.5, 25 °C cell temperature.		



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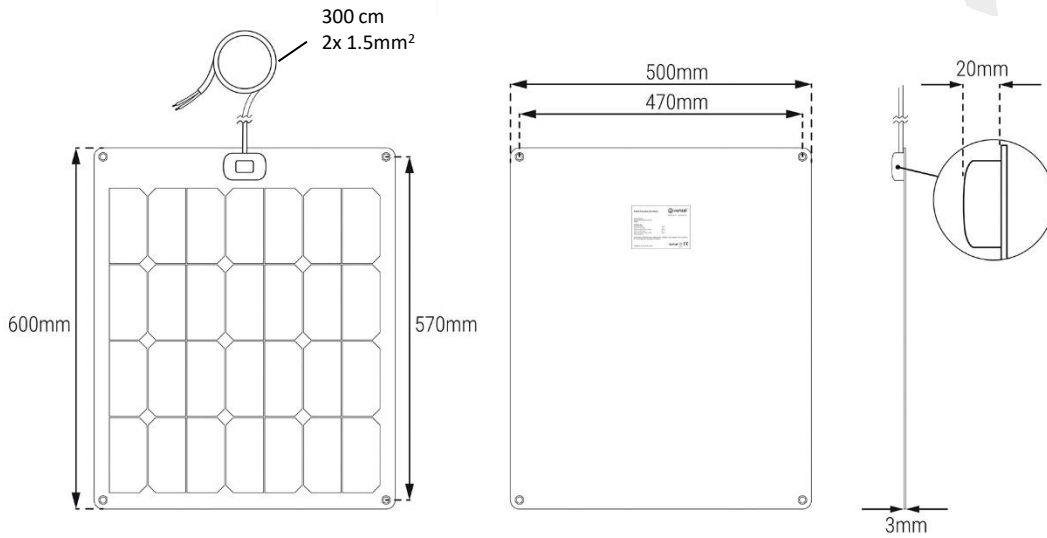
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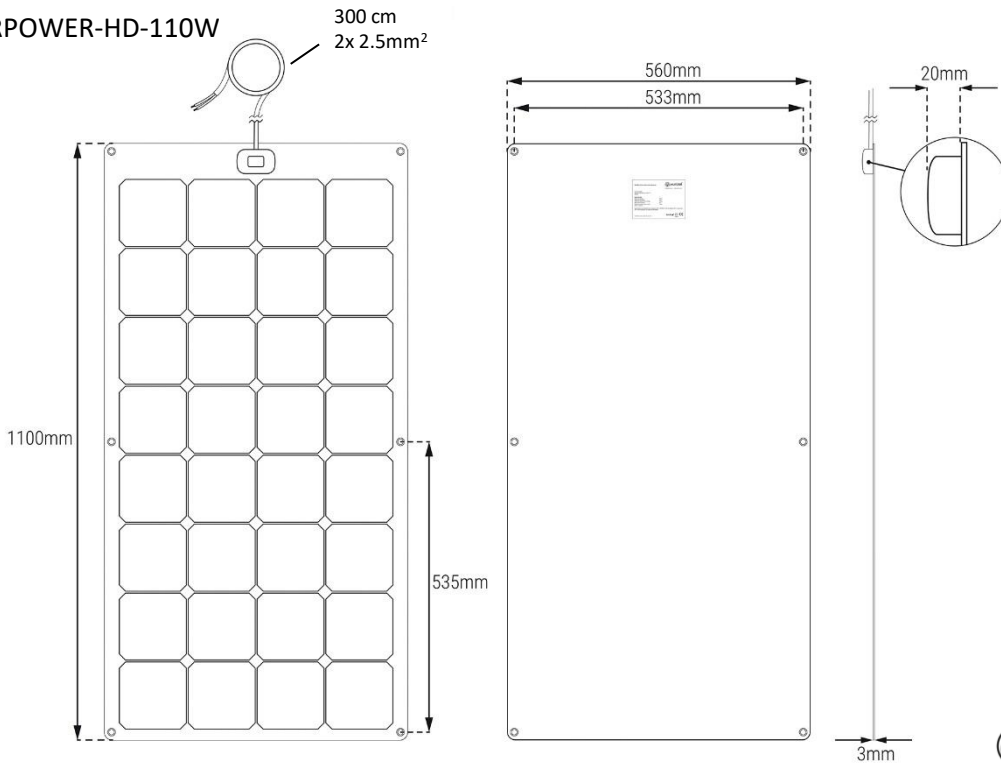
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Drawings

SOLARPOWER-HD-50W



SOLARPOWER-HD-110W



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