



xunzel™

PRODUCT
NOTE

applied Solar and Wind Energy™

SOLARPOWER-HD™ Series

SOLARPOWER-HD™ Series - XUNZEL XUNZEL Very High-Efficiency Solar PV Panels Ultra-Thin, Light and Flexible

Product Overview

- 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 (IP65)
- High-Efficiency All-Back Contact Patented Monocrystalline (mc-Si) Silicon Solar Photovoltaic (PV) Cells
- Specially designed for 12V Off-Grid & Off-Shore Battery Charging Systems. Easy to connect in series for 24V and 48V systems
- 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	20W 12V
SOLARPOWER-HD	50W 12V
SOLARPOWER-HD	110W 12V

More Power



High Efficiency
Solar Cells

Ready-to-connect
Easy-to-install



Stainless Steel Rings
Ø10 mm

Front-side IP65 Junction



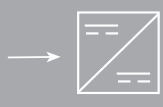
Pre-assembled Solar
Cable Included (3m)



SOLARPOWER-HD™ Series



SOLAR
PANEL



SOLAR CHARGE
CONTROLLER*



SOLAR
BATTERY*

*Not included



GARDEN



HOME



CARAVAN



MARINE

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



SOLAR



WIND



MARINE
BOAT



CARAVAN
CAMPING



UPS-BACKUP
ENERGY



PROFESSIONAL



TELECOM
CATV



AGRICULTURAL



WORKS



TRAFFIC



info@xunzel.com
www.xunzel.com



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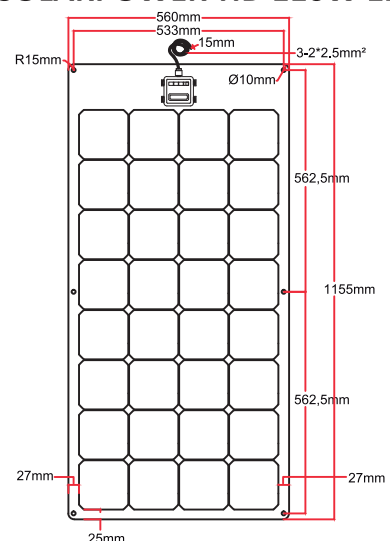
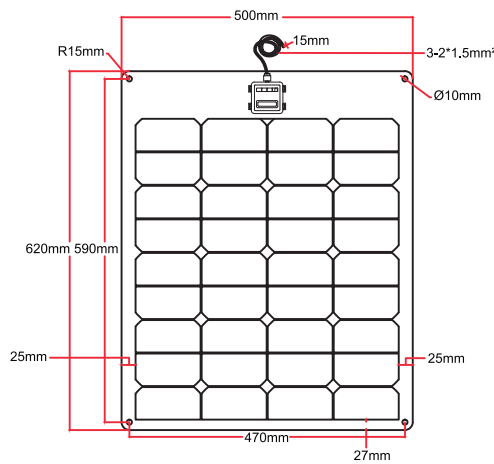
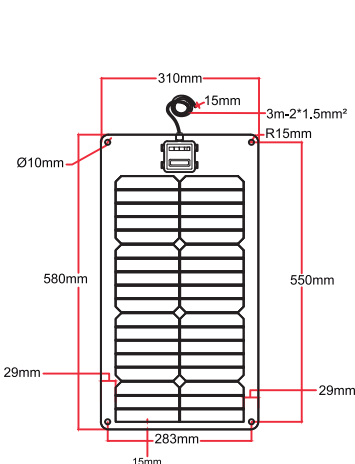
Specifications

Model	SOLARPOWER-HD 20W 12V	SOLARPOWER-HD 50W 12V	SOLARPOWER-HD 110W 12V
Electrical data – Specifications at Standard Test Conditions (STC): 1000W/m ² solar irradiance, AM 1.5, 25°C cell temperature			
Maximum Power P _{max}	20W	50W	110W
Nominal voltage	12V		
Open Circuit voltage V _{oc}	20,8V	20,8V	21,9V
Maximum Power Point Voltage V _{mpp}	17,6V	17,36V	18,56V
Short Circuit Current I _{sc}	1,23A	3,11A	6,32A
Maximum Power Point Current I _{mpp}	1,14A	2,88A	5,97A
Maximum System Voltage SCII	600VDC		
Cells	Hi-Efficiency <i>All-back contact</i> Monocrystalline Silicon		
	36 pcs		32 pcs
Dimensions [mm]	580 x 310 x 3	620 x 500 x 3	1155 x 560 x 3
Net Weight [kg]	0,6	1	2,5
Preassembled Solar Cable	2-core solar cable (3m) - Pre-cut 15mm		
	2 x 1,5mm ²		2 x 2,5mm ²
Grommets	Stainless Steel Rings. Inner diameter 10mm		
Backsheet	All-black		
Junction Box	IP65, Front-side		
Bypass Diode	1pcs		2pcs
Operating Temperature	-40°C a +85°C		

SOLARPOWER-HD 20W 12V

SOLARPOWER-HD 50W 12V

SOLARPOWER-HD 110W 12V



XU-2170906-JS



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