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Email: **contact@energypal.com**



Solar Panel Guide

Specification Data Sheet

Learn more at energypal.com/best-solar-panels-for-homes



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PRODUCT
NOTE

SOLARPOWER™ Series



SOLARPOWER™ Series –XUNZEL



Preassembled Solar Cables Included

SOLARPOWER™ Series – XUNZEL

XUNZEL Off-Grid High-Efficiency Solar Photovoltaic Panel for Battery Charging

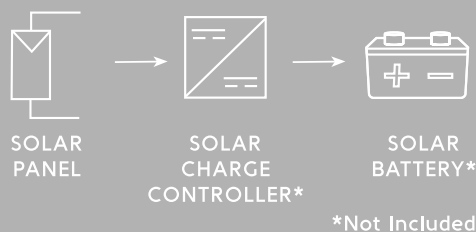
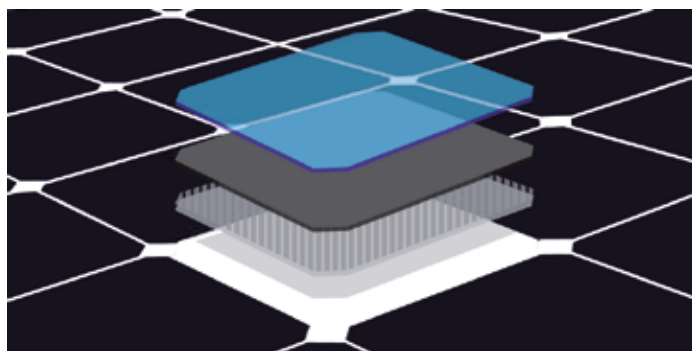
Product Overview

- Designed for Off-Grid & Off-Shore systems
- Ready to connect and use. Secure and easy wiring
- SOLARPOWER™ includes long pre-assembled solar cables ready to connect to the solar charge controller
- 36-cells modules, best option to charge 12V batteries (72-cells modules for 24V batteries)
- Extendable. High power systems can be achieved connecting strings in parallel
- Silicon Crystalline (c-Si) Solar PV modules
- High-quality, very reliable and high-performance
- Corrosion resistant junction box to protect electrical connections
- Hardened protective glass protects the cells. Also the cells are embedded in transparent EVA (Ethylene-Vinyl-Acetate)
- Flash and Electroluminescence Tested
- Positive performance tolerance

Available Models

SOLARPOWER 05W 12V
SOLARPOWER 10W 12V
SOLARPOWER 15W 12V
SOLARPOWER 20W 12V
SOLARPOWER 30W 12V

SOLARPOWER 60W 12V
SOLARPOWER 80W 12V
SOLARPOWER 120W 12V
SOLARPOWER 185W 24V
SOLARPOWER 240W 24V



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Specifications

Model	SOLARPOWER 05W 12V	SOLARPOWER 10W 12V	SOLARPOWER 15W 12V	SOLARPOWER 20W 12V	SOLARPOWER 30W 12V	SOLARPOWER 60W 12V	SOLARPOWER 80W 12V	SOLARPOWER 120W 12V	SOLARPOWER 185W 24V	SOLARPOWER 240W 24V
Electrical data –Specifications at Standard Test Conditions (STC): 1000W/m² solar irradiance, AM 1.5, 25°C cell temperature										
Maximum Power Pmax [W]*	5	10	15	20	30	60	80	120	185	240
Nominal voltage [V]	12								24	
Open Circuit voltage Voc [V]	21.80	22.70					23.0	22.70	44.50	44.20
Maximum Power Point Voltage Vmpp [V]	18.10	18.30							36.50	36.20
Short Circuit Current Isc [A]	0.30	0.58	0.90	1.16	1.74	3.48	4.63	6.95	5.37	7.21
Maximum Power Point Current Impp [A]	0.28	0.55	0.82	1.09	1.64	3.28	4.37	6.56	5.07	6.63
Maximum Series Fuse Rating	5A	10A								
Normal Operating Conditions Temperature NOCT	45°C ± 2°C									
Temperature Coefficient of Power	-0.38%/°C									
Temperature Coefficient of Voc	-0.29%/°C									
Temperature Coefficient of Isc	+0.086%/°C									
System integrated parameters										
Maximum System Voltage SCII	1000VDC									
Maximum Reverse Current	Do not apply external voltages larger than Voc to the module									
Cells	36 pcs. Hi-Quality Polycrystalline Silicon								72 pcs Hi-Quality Polycrystalline Silicon	
Dimensions [mm]	270 x 185 x 18	265 x 350 x 25	350 x 350 x 25	415 x 350 x 25	604 x 350 x 25	626 x 674 x 30	768 x 676 x 35	1158 x 676 x 35	1236 x 992 x 35	1690 x 990 x 45
Net Weight [kg]	0.71	1.20	1.45	1.90	2.50	5.60	6.70	9.50	13.20	20.10
Preamsembled Solar Cable	Single solar cable 2-core: 2 x 1.5mm²/ 2m Pre-cut 15mm					2 solar cables I-core:4mm²/ 4m Pre-cut 15mm		2 solar cables I-core 6mm²/4m Pre-cut 15mm		
Frame	High quality anodized aluminum									
Front	Low-iron and tempered glass 32mm (EN 12150)									
Cells Embedding	Transparent EVA (Ethylene-Vinyl-Acetate)									
BackFoil	High-quality plastic film. TPT/TPE/BBF									
Junction Box	IP65									
Certificates	IEC 61215 / IEC 61730									

*Positive Power Tolerance.

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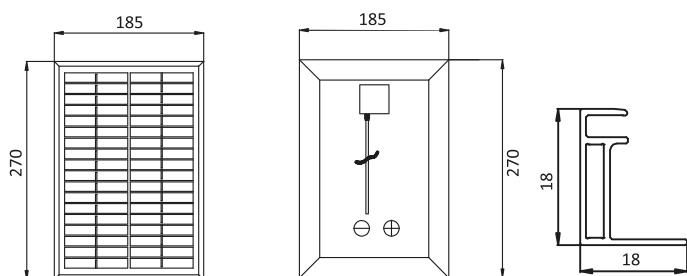
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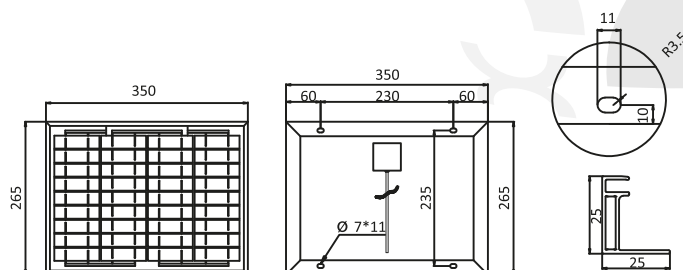
SOLARPOWER™ Series

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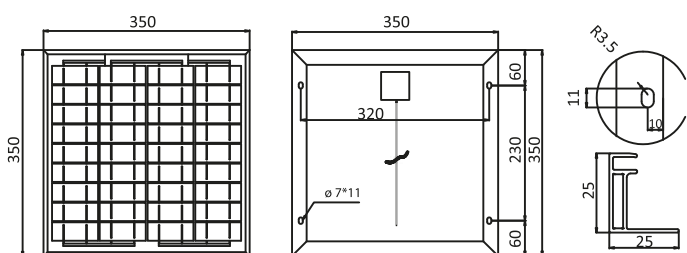
SOLARPOWER 05W 12V



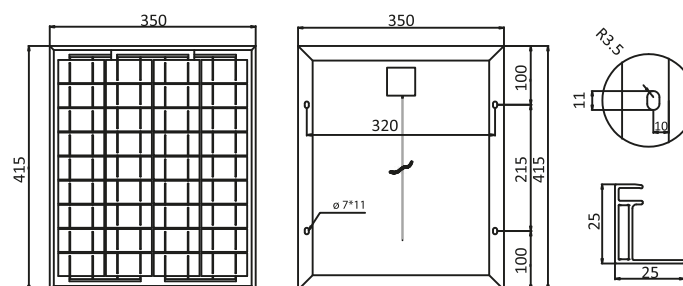
SOLARPOWER 10W 12V



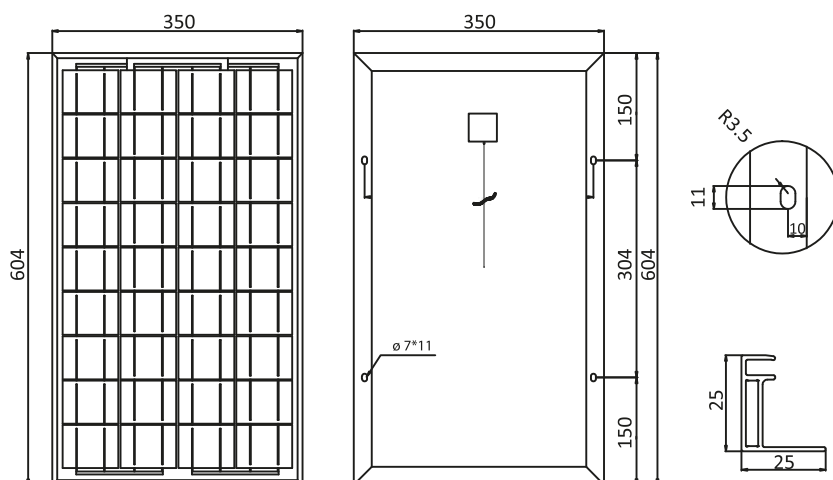
SOLARPOWER 15W 12V



SOLARPOWER 20W 12V



SOLARPOWER 30W 12V



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SOLAR



WIND



MARINE
BOAT



CARAVAN
CAMPING



UPS-BACKUP
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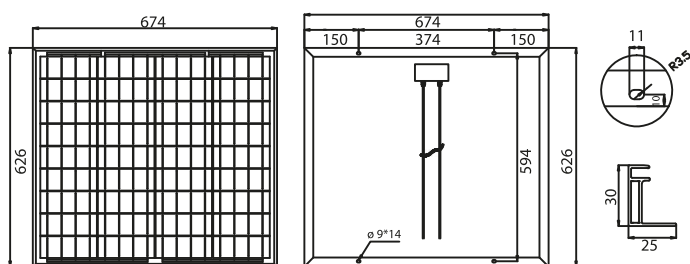
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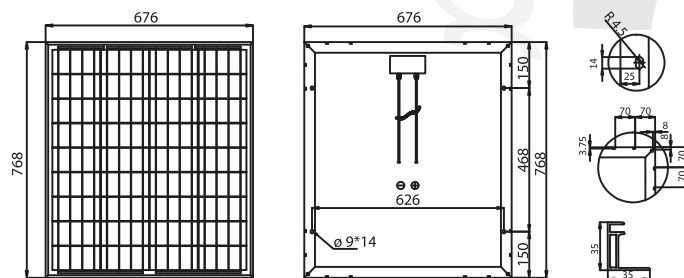
SOLARPOWER™ Series

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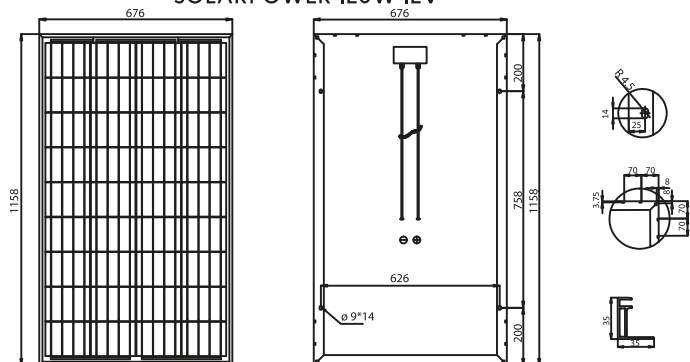
SOLARPOWER 60W 12V



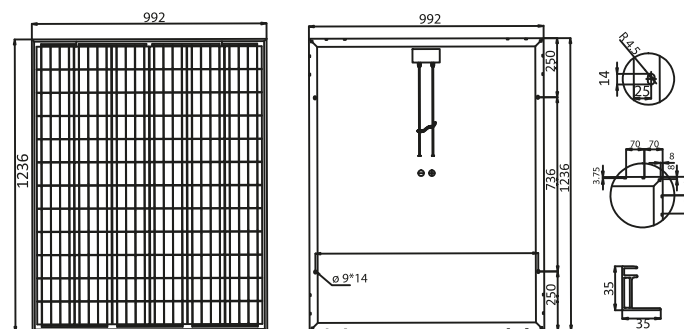
SOLARPOWER 80W 12V



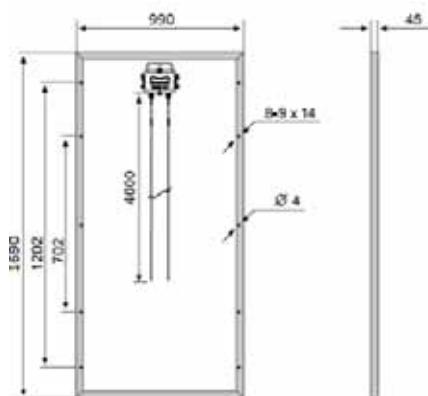
SOLARPOWER 120W 12V



SOLARPOWER 185W 24V



SOLARPOWER 240W 24V



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