



Gershoj Energia Kft.

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User Manual Solar Fan

Please read this instruction before using your Solar fan with three power supplies - and keep this instruction in a safe place for future reference





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1. Product Introduction

First of all congratulations with your Solar Fan! Your mobile fan will work with the power of the sun from the quality 30 W Photo voltaic panel and automatically adjust to the intensity: More sun, higher speed!

The fan has three speeds, can oscillate from side to side as well as an integrated timer function.

The solar panel can be mounted permanently on a wall, roof or e.g. your balcony. There's 5 meter cable. And the bracket can be adjusted to the optimal angle of the sun. Or just place the panel on the ground in your garden, next to your fan.

You can also connect the fan to e.g. a car battery with the included cables. If the sun is not heating and you still would like to run your ventilator indoor, you can use the energy saving power supply.

This power supply is suitable as a spare or replacement power supply for many other applications. The output voltage can be set in 7 stages. The energy saving in standby mode compared to conventional linear power supplies is over 90%, conforming to the "ErP" energy saving guideline. Use it for other appliances and save money!

There's a few things you need to be aware of when using your Solar Fan. So please make sure to read this instruction first – and don't hesitate to ask your dealer or Gershoj Energia directly, if you got any questions!



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2. Technical Parameters

You can see from the technical data you got quality in your hands:

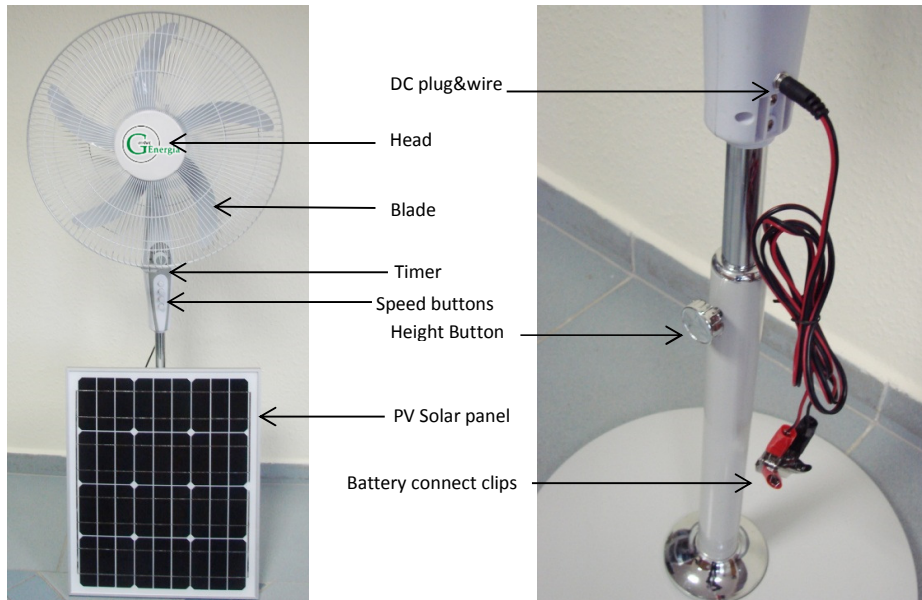
PLD-H Solar Fan		
Dimension	22"	
Weight	6,8 kg	
Performance	24 W	
Operating Voltage	DC 12 V	
Adjustable Height	Min. 1140 mm	Max. 1330 mm
Performance Connection	Ø 5,5 mm x Ø 2,5 mm metal connector	
Guarantee	1 year	

ZDNY-30C Solar Panel			
Dimension	450 x 550 x 25mm		
Weight	3,0 kg		
Peak Performance	30 W		
Open Circuit Voltage	11,0 V		
Short Circuit Current	3,69 A		
Max. Power Voltage /	Current	8,5 V	3,53 A
Output Tolerance	+/- 3%		
Cell Type /	Number	125 * 125 Mono-Crystalline Silicon 12 pcs	
Maximum System Voltage	DC 600 V		
Operating Temperature	Between -40 and 85°C		
Windresistance /	Pressure Bearing	2400 N/m ²	5400 N/m ²
Manufacturer's guarantee /	Performance Guarantee	10 years	80 % for 25 yrs
Connection Cable for Fan	5 meters		

VOLTcraft USPS-2250 Universal Adapter			
Dimension	88 x 52 x 78,6 mm		
Weight	0,202 kg		
Power Input Max. /	Power Output Max.	37 W	27 W
Changeable polarity	Power saving		
Operating Voltage	100-240 VAC and 50-60 Hz		
Output Voltage	3; 4; 5; 6; 7,5; 9; 12 VDC		
Output Current Max.	2250 mA		
Dimensions of Jack	A Jack: 2,5 mm	B Jack: 3,5 mm	
Low Voltage Connector	Multifunctional in 6 different sizes		
Guarantee	1 year		



3. Product Diagram



4. Installation instruction

- Take out all parts and accessories from the packaging.
- Take out the fixed screw on the pole and use it to connect pole, base cover and base.
- Extend the pole to the appropriate height and screw on the body with two screws.
- Open (clockwise) and take out the locker on the head.
- Put the back net on the engine and fastened the locker with the screw.
- Put the blade into the central axis and fix it by the cap locker (anti-clockwise).
- Put the front net inside the net ring as match.
- Fasten the screw of the net ring.
- Assemble the PV module support structure and adjust the bracket angle.
- Connect the power socket on the back of the fan with one of the delivered power supply's:
 - a) The 30W Solar panel with assembled bracket, 5m long cable and power Jack.
 - b) To a DC 12 V battery, with the delivered plug&wire and red+black clips.
 - c) To the electricity network with the right DC adapter power jack (5,5x2,5 mm), e.g. during the night.
- Push one of the speed buttons on and the fan will work if installed correct.

5. User instruction and features



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- Button 0 : Stop Working
 - Button 1 : Low speed
 - Button 2 : Medium speed
 - Button 3 : High speed
- (If the sun is limited, use this button to get max use of the Solar panel)

Timer : Adjustable from 0 – 60 minutes adjustable

Oscillating Button

When the fan is working in speed, push this button to start or stop oscillating.

Height adjustment

Unscrew the height button to adjust the pole's height as you need, then screw it on again.

Bracket angle adjustment

Use the 4 angle buttons to adjust the PV panel to the correct angle. If placed on the ground, the shadow of the panel will show when you're in the perfect 90 degrees angle to the sun.

PV solar panel

Connect the 30W panel plug terminal, push the speed button on and the fan starts working with the free energy of the sun.

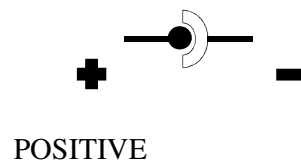
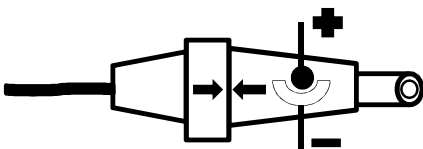
DC wire with clips

Connect this wire plug terminal and the alligator clips to the 12 V DC battery, push the speed button on and the fan starts working.

Universal power supply

With the delivered screwdriver, set (turn) on the bottom side of the appliance the red revolving switch to 12 V(output DC voltage).

Choose the Socket 5,5x2,5/12mm and plug it into the cable end-socket with the correct polarity – arrow to arrow and **POSITIVE** middle (if you do not do this right, the fan will rotate in reverse and can damage the fan).





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Connect the adapter output plug into the fan socket and the power source into the electricity network. A lit-on control light indicates the power source is on. Push the speed button on and the fan starts working.

6. Detailed Features

- Fan working angle:
With oscillating function, the fan head moves 210 degrees from left to right and right to left in cycle.
- The fan head can also be lift up or down 130 degrees.
- The optimal insolation angle of PV solar panel can be adjusted between 0 – 90 degrees.
- The Solar panel bracket can be mounted to a wall. There's already holes for this.

7. Attention

- Only the 30W/9V Solar PV Module from the kit can be used as a Solar Panel power-supply.
- Operating voltage is 12 V if a battery is used as power-supply. Always check the polarity is correct.
- It is very important to use the included power Jack as it has the right size and polarity.
- If you're not using the fan over a longer period, make sure it's turned off and unplug it.
- Please don't keep the machine near humid, wet or flammable places.

8. Warnings

- It is important to connect the battery with right polarity as reverse polarity will permanently damage the solar fan!
- It is very important to connect the DC adapter (switching power supply) with right polarity and output voltage 12V, as reverse polarity or wrong voltage will permanently damage the solar fan or the DC adapter!
- The solar fan and all included appliances, except the PV Module, is intended for use in dry, interior and electrically safe premises.
- The circuit board is made by high-precision electronic components, please do not disassemble or change the internal circuit, otherwise it may lead to electric shock!
- If the appliance, powered by the b) or c) power source, works incorrectly, immediately check the polarity or the right 12V voltage of the source and immediately change to



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the right polarity or voltage - Do not short-circuit the power sources and do not overload it!

- Please don't put it into moisture or corrosive substances, it may damage the inside circuit, even cause an electric shock hazard!
- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
- Be aware that if the fan is turned on and connected to the solar panel but not running, it will start to run automatically when the sun shines again.
- Children should be supervised to ensure that they do not play with the appliances.

Do not intervene into the solar fan components; do not disassemble or change the internal circuit.

It is not allowed to use other type of Photovoltaic modules or multiple panels.

It is not allowed to use a battery together with the PV module or the DC adapter for electrical supply. A battery directly connected to the solar panel will not charge and will destroy both.

Be Aware! Any of the above can damage the ventilator appliances and is not covered by the warranty!

In case of post-warranty-period malfunction, contact your dealer.

Now, get started and enjoy the free power of the Sun!