# Hybrid Solar and AC Powered Roof Exhaust Fan/Ventilator

Running Day and Night

SOLAR ONLY

Model: ILG8SF301

SOLAR & AC

Model: ILG8SF301A

Owner's Manual

PLEASE READ AND
SAVE THESE INSTRUCTIONS

## CONGRATULATIONS!

The iLIVING ventilation exhaust fans are the NO.1 selling fan on the market. This smart solar attic fan is your best choice for cooling off your home while helping you to save big on your cooling bills. Equipped with a powerful 40W adjustable Polycrystalline solar panel, this fan is IP68 waterproof. Built with a brushless motor, it provides up to 2000 sq ft of capacity cooling. Smart thermostat with wide range control of 50-122°F and an Enable/Disable feature allows you to have more freedom to control the fan the way you want. The "Solar & AC" Hybrid version is fitted with solar absence operation feature which enables non-stop running without solar power. The ventilator also comes with an optional remote ON/OFF switch, which is sold separately. Fan comes with 15 years warranty. Designed and engineered by iLiving in San Francisco, California.

Before using your iLIVING ventilator, please take a few minutes to read these instructions, review the product limited warranty.

Thank you!

**WARNING!** To reduce the risk of fire, electric shock, or personal injury, read all the instructions before using this ventilator. This appliance is intended for household or personal use only as described in this manual. Any other use including but not limited to commercial, agricultural, or outdoor use, is not recommended by the manufacturer and may cause fire, electric shock, injury and/or damages. The use of attachments, accessories or extension cords not recommended or sold by iLIVING may cause hazards and void the warranty.

# IMPORTANT INSTRUCTIONS

# SAVE THESE INSTRUCTIONS

### Product Specifications

| | |
|---|---|
| Voltage Rating | 18V DC (Solar) and AC (120V ac 60Hz) |
| Power Consumption | 40W |
| Airflow (CFM) | 1750 |

| | |
|---|---|
| Shipping Weight | 35.1 lbs. |

**Dimensions:**

| | | | |
|---|---|---|---|
| Coverage area (sq. ft) | 2000 | Product Height (in.) | 10 |
| Product Width (in.) | 21 | Product Depth (in.) | 21 |

**In the Box Content (ILG8SF301)**

- Solar roof ventilator
- User's Manual
- Smart Thermostat

**In the Box Content (ILG8SF301A)**

- Solar roof ventilator
- AC/DC adapter: ILG8SF304
- User's Manual
- Smart Thermostat

## Special Features

- Smart Thermostat control 50-122°F with Enable/Disable feature
- IP68 waterproof brushless motor, 15 Year Warranty
- Adjustable solar panel (0°/15°/30°/45°), 40W, 1750CFM, Up to 2000 cool sq ft off capacity
- AC non-stop Day/Night running connection **(ILG8SF301A)**
- ON/OFF Switch (sold separately)
- 14 inches Nylon – Fiber-Aluminum fan blade with 1750 CFM

## Thermostat

- If switch is set to O, the thermostat is disabled. Fan will turn on when sunlight is available regardless of the ambient temperature.
- If switch is set to --, the thermostat is enabled. Fan will turn on when ambient temperature reaches the set/desired temperature and sunlight is present.

## Installation and Mounting Instruction

Before beginning the installation of your new Solar Powered Roof Exhaust Fan, please read through the entire installation instructions and contact us if you have any questions.

Tools Required:

- Ladder
- Reciprocating saw (or jig saw)
- Power drill with a 1/2" – 1" drill bit
- 1" – 2" deck screw and screw bit
- Hammer & roofing nails (or self tapping galvanized screws)
- Caulk gun with waterproof roofing sealant
- Measuring tape
- Permanent marker (or chalk / crayon)
- Roofing knife (or box cutter)
- Flat pry bar

## 8 Steps Installation Instruction

It is advised that you prepare the mounting hole prior to bringing the fan up on the roof. Always secure the fan on the roof to avoid injury or having the fan slide off the roof and get damaged

**Step 1 - Ventilation Clearance**

To maximize the solar fan's effectiveness, you're suggested to remove or block any existing rooftop static vents and ridge vents. If there is already a turbine type vent, simply remove the old vent and use the same hole for the new installation, or block it completely. (Fig. 1)

** Make sure you have proper intake ventilation at the eave or fascia. Use a ratio of 1 sq. ft. of intake ventilation for every 600 sq. ft. of attic space.*

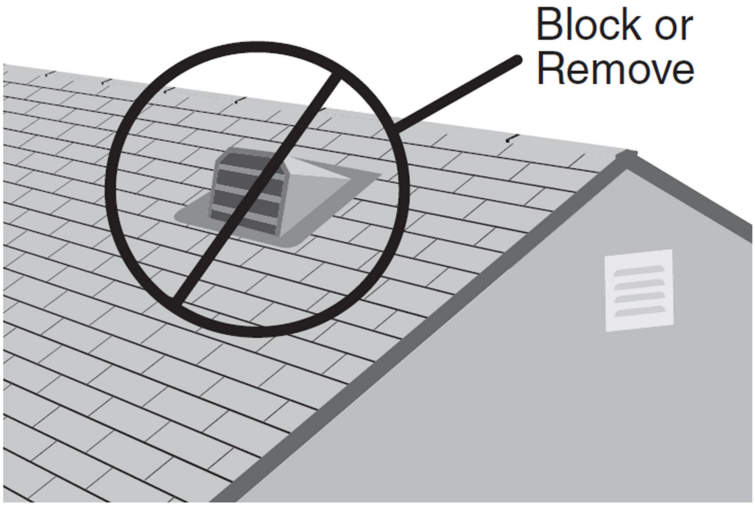

Fig. 1

**Step 2 – Positioning the Solar Fan**

For optimum performance, position the solar fan due south or southwest, and position it on an area of roof where the sun is not shaded or blocked, so as to capture direct sunlight and extended sunlight periods throughout the day. (Fig. 2)

Then pitch upon the position that is 18 – 24 inches from top of the roof peak and as close to the mid-point of your house as possible.

** In the case that 2 or more fans are getting installed, each fan should be separated by at least 15 feet to optimize ventilation.*

Fig. 2

**Step 3 – Marking the Ventilation Hole**

From inside the attic, measure approximately 18-24 inches down from the roof peak and center this spot between two rafters (Fig. 3-1). Through this mark, drill a screw into the plywood and roof shingle to have it located from on top of the roof.

Cut a template cardboard at same size as the air duct's, then puncture it from center hole over top of the screw, and trace a circle around outer edge of the template with any marker for a circle at 12'' or 14" diameter. (Fig. 3-2)

** Alternatively, you can make use of a 6"or 7" cotton thread and strap a pen at the edge of it. Then move the pen to draw a circle same at 12" or 14" diameter.*

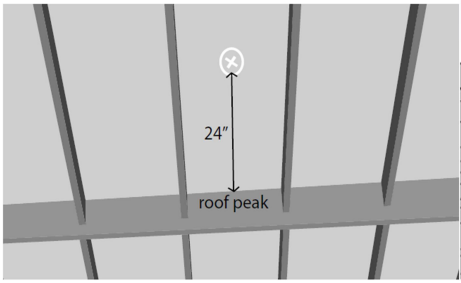

Fig. 3 -1

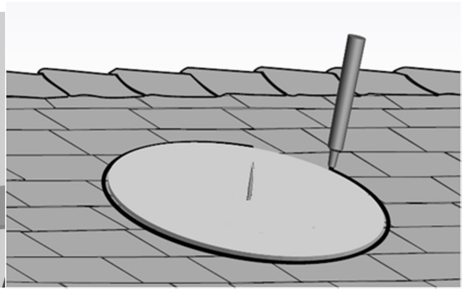
Fig. 3-2

**Step 4 – Cutting the Hole**

Bore a pilot hole with your power drill anywhere along inside of the marked circle. Then insert the saw blade into that pilot hole, and cut a complete hole into the roof following the circle pattern. (Fig. 4)

***NOTE**:*

- *Do not cut through any roofing rafters or framing materials. Only cut and remove the roof sheeting and shingles.*
- *Prior to cutting the hole, make sure there is no any wires or waterlines in the area that you are cutting.*
- *Try to secure the removed materials before completely cutting out the circle, so that they do not fall into the attic space.*

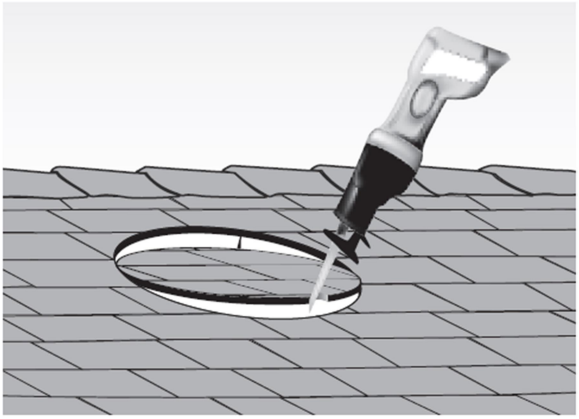

Fig. 4

**Step 5 – Lifting the Shingles to Slide Up the Attic Fan**

To slip the solar fan smoothly on top of felt paper and underneath shingles on the roof, the nails located 5” above and to the side of that hole will need to be removed. Use a pry bar or reciprocating saw to loosen or cut those nails. (Fig. 5-1)

In some cases, the builder may have used large washers to install the felt paper, if it does not slide easily into place when slipping the solar fan, a nail is most likely blocking the bottom. In this case, lift up on the shroud cover slightly to position the solar fan directly over the hole and under the shingles. (Fig. 5-2)

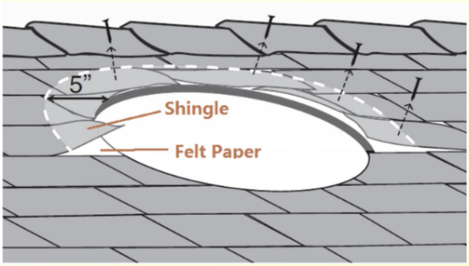


Fig. 5-1

Fig. 5-2

**Step 6 – Securing the Solar Fan**

Mark and pre-drill some visible holes on the bottom board, then get some proper screws or nails and drive them through those holes to secure the solar fan to the roof. After then, apply waterproof roofing sealant to the screw heads to prevent water percolation. (fig. 6)

Any shingles that remain loose should be fixed as well, use roofing nails to secure them and apply waterproof roofing sealant to the backside of shingles or the nail heads that have been added.

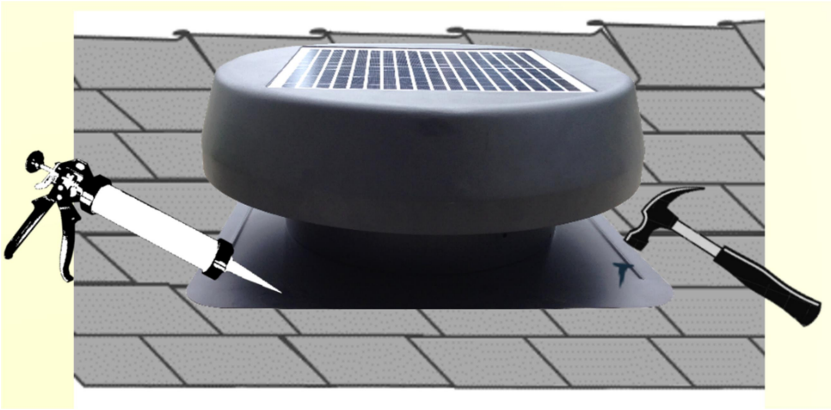

Fig. 6

**Step 7** (for those solar panel adjustable models only)

**– Installing the Angel Adjustment Bracket**

Attach the provided screws and brackets left from package box to the unit. Install the angle adjustment brackets by securing one end to the regulating plate and the other end to the solar panel frame. (Fig. 7)

- This fan has the solar panel adjustment design at 3 angles: 15°, 30°& 45°, set the angle properly to capture most direct sunlight in your area.
- The fan also has a horizontal adjustment platform design for the solar panel turning from 1°to 90°, regulate the solar panel direction for it to enjoy all-day sunbath.


Fig. 7

**Step 8** (for those solar panel adjustable models only)

**– Adjusting the Solar Panel**

The fan's solar panel should be adjusted to maximize exposure to the sun's path during the day. The optimal adjustment is to have the panel 90° to the midday path of the sun.


** You can re-adjust the panel during winter or summer seasons if desired.*

**How long is the warranty?**

This ventilator comes with a 15-YEAR LIMITED COMPONENT WARRANTY. If your unit does not appear to be working properly, please contact our service center by calling 1-800-317-1688. Prior to your call, we encourage you to visit our service related website www.ilivingusa.com for troubleshooting tips and service instructions if needed.

## Warranty Information

Register your product at our website:


Or visit iLivingUSA.com/register-product

## Feedback

Love it? Help us make the product more for you.

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Please visit: https://www.amazon.com/review/review-your-purchases#

At iLiving USA, we are committed to bringing top quality products to our customers.

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