

# Solar Centrifugal Ducted Blower Fan



SUNNY INTERNATIONAL POWER LTD

# Product Description

## SIPL Solar Centrifugal Ducted Fan

A green solar powered wall/ ceiling mounted ventilation ducted blower fan, driven by brushless DC motor and run for air supply or exhaust, to improve indoor air ventilation freely by enjoying the generous sunlight.

### Functions

- Strengthen air circulation
- Deduct harmful mildews
- Remove moisture, dust, odor
- Solar dc powered, no rely on grid power
- Effective power backup for running 24h

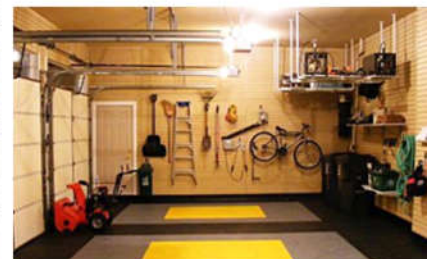
### Advantages

- Solar powered at zero electric cost
- Operation quietly & efficiently
- Energy saving & eco-friendly
- DIY Easy installation & wiring
- Good motor driven for longer lifespan
- Once Pay, Benefit Long



### Application

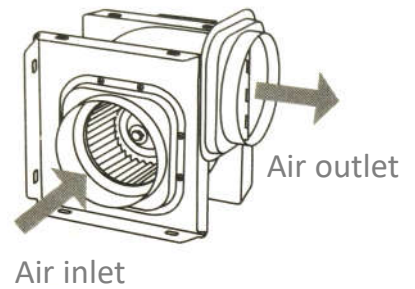
- Living room
- Bathroom
- Kitchen
- Bedroom
- Basement
- Office
- Hotel
- Restaurant
- Recreation room
- ...



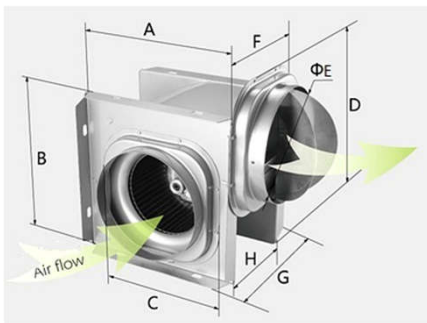
# Solar Fan Details

## Centrifugal Fan

- ✓ All galvanized steel fan body design, surface with anti-UV powder coating, strong and rust protection for durability.
- ✓ Precision integrated metal wind wheel, centrifugal operation with big air flow, running stably in low noise.
- ✓ Small volume of scientific structure, fan body separated from air inlet & outlet, 90° right angle air blowing, fulfills diverse position, flexible to install.
- ✓ Equipped with high quality brushless DC motor, quiet operation, long term maintenance-free & longer service life.



### ➤ Dimension Table



Optio n#	A (MM)	B (MM)	C (MM)	D (MM)	E (MM)	F (MM)	G (MM)	H (MM)
4"	216	180	130	205	100	175	142	104
6"	298	250	160	278	150	215	179	142
8"	350	300	235	360	200	285	235	190

### ➤ Fan Motor Parameter

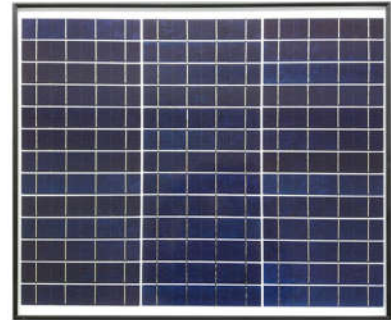
#78mm Brushless DC Motor	
Voltage	18V DC (variable 6-21V per solar panel input)
Power	no higher than 40W
Diameter	78mm
Motor Speed	45-1750RPM per solar panel input
IP Rate	IP63
Sound	Quiet (< 45dB)

Long time lifespan,  
High energy efficiency!



# Solar Panel

- 20W / 40W/ 60W / 90W / 120W Polycrystalline Solar Module
- Tiltable and Adjustable Design with Mounting Base and Brackets
- Waterproof Wire Connector to connect with fan
- Can Carry Battery Kit to Store Energy for Night Use



Option #	L (MM)	W (MM)	H (MM)	Battery	Function
20W	410	365	25	/	for fan working in sunny day periods
40W	495	495	25		
60W	782	495	30		
60W (30W + 30W)	782	495	30	9.6Ah	30W to power fan in sunny day hours, 30W to charge battery as energy backup for sunless periods
90W (40W + 90W)	878	665	30	9.6Ah	45W to power fan in sunny day hours, 45W to charge battery as energy backup for sunless periods
120W (60W + 60W)	980	880	30	16Ah	60W to power fan in sunny day hours, 60W to charge battery as energy backup for sunless periods



## ➤ Solar Battery System

The battery collects & stores energy at day time to support the solar fan work continuously after sunset.

Battery: lithium iron phosphate battery, inbuilt & integrated with solar panel

Charge: charged by solar panel

Capacity: 9.6Ah / 16Ah

Operating temperature: -20~60°

Cycle life: 2000 times

# Model Selections

## Day Time Freely Running Centrifugal Solar Blower Fan



fan auto-runs powered by solar panel in sunny hours, when sunlight is available



Models#	Solar Panel	Air Outlet Diameter	Fan Host Size	Air Flow	Work Time	Power Source
SN2015035	20W /18V	4" / dia.100mm	216x205x175mm	103CFM	Sunny hours	Solar panel
SN2016014	40W /18V	6" / dia.150mm	293x285x185mm	273CFM		
SN2017001	60W /21V	8" / dia.200mm	350x360x285mm	372CFM		

## Day & Night Time Nonstop Running Centrifugal Solar Blower Fan



fan auto-runs powered by solar panel in sunny hours, and keeps running by auto-switching to grid power in sunless time



Models#	Solar Panel	Air Outlet Diameter	Air Flow	Backup Energy	Work Time
SN2015036	20W /18V	4" / dia.100mm	103CFM	1.5A * 18V AC/DC power adapter	Day & night 24 hours
SN2016015	40W /18V	6" / dia.150mm	273CFM	1.5A * 18V AC/DC power adapter	
SN2017002	60W /21V	8" / dia.200mm	372CFM	1.5A * 21V AC/DC power adapter	

## Day & Night Time Nonstop Freely Running Centrifugal Solar Blower Fan






fan auto-runs powered by solar panel in sunny hours, and keeps running by auto-switching to battery in sunless time



Models#	Solar Panel	Air Outlet Diameter	Air Flow	Backup Energy	Work Time
SN2015037	60W ( 30W + 30W )	4" / dia.100mm	103CFM	12.8V 9.6Ah battery	Day & night
SN2016016	90W ( 40W + 50W )	6" / dia.150mm	273CFM	12.8V 9.6Ah battery	
SN2017037	120W ( 60W + 60W )	8" / dia.200mm	372CFM	16V 16Ah battery	

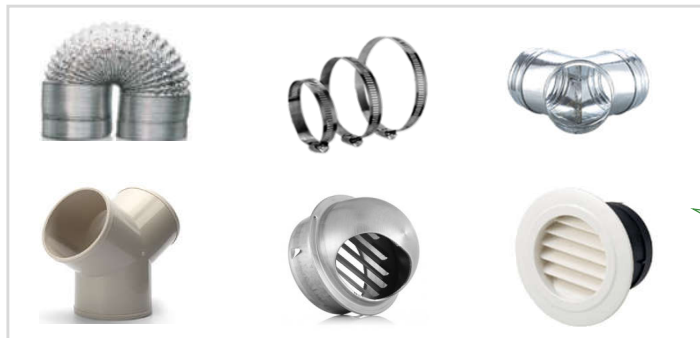
# Customization Service

## Switch Options

	<p><b>Remote Controller</b></p> <p>A wireless remote switch to have solar fan run/ stop most flexibly at any time, includes On/Off &amp; 2hrs/4hrs Time Off functions; the fan will resume running automatically after 12 hours from the remote setting time; One-to-many control is workable within 15m.</p>
	<p><b>Snap-action Thermostat</b></p> <p>Attaching a thermostat to have the solar fan run/ stop mechanically at preset temperature.</p> <p>[25°C thermostat] On: 25°C +/-3°C; Off: 18°C +/-5°C [28°C thermostat] On: 28°C +/-3°C; Off: 21°C +/-5°C</p>
	<p><b>Manual Switch with Power Cord</b></p> <p>A manual switch is added to have the solar fan on / off flexibly as per your need.</p>

## Duct Fan Accessories

Aluminium foil tube / Hose clamp / Tee joints / Vent cap / Air grille



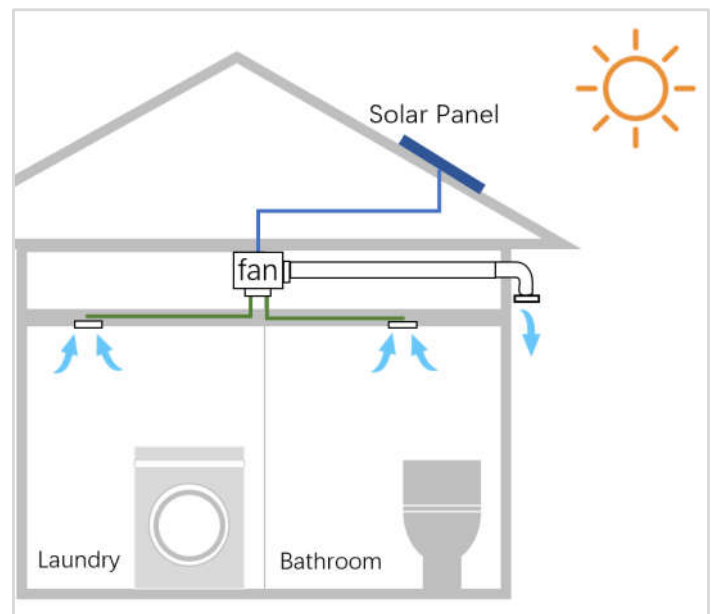
- Add Pipeline for long distance air exhaust
- Add vent caps to prevent outside rains
- Use tee joints to form a ventilation system

*Easy to find from local market, such accessories are not in our list. If you need them also from us, please let us know.*

## Solar Ventilation System

With foil tubes and tee joints, one solar centrifugal ducted fan can be used to make ventilation for multiple spaces.

Besides, bigger solar panel can be customized as per need, to power one or several solar fans at the same time.



## Warranty

Product Part	Designed Lifespan	Warranty
Metal Casing	8 Years	5 Years
Solar Panel	25 Years	15 Years
Brushless DC Motor	10 Years	5 Years
Lithium Battery	8 Years	2 Years
AC/DC Power Adapter	5 Years	2 Years

*The hereby lifespan & warranty terms are based on the product be used in regular residential housings, but not in those too humid or extreme condition places with acid and alkali corrosive gas / liquids.*

## Contact us

Thanks for your kind attention on our solar products.  
Please feel free to contact us for any further inquiry.



SUNNY INTERNATIONAL POWER LTD

Tel: 0086 750-6219188 Fax: 0750-6219198

Email: [sales@sunnyintlpowerltd.com](mailto:sales@sunnyintlpowerltd.com)

Website: [www.sunnyintlpowerltd.com](http://www.sunnyintlpowerltd.com)

[www.sipl.en.alibaba.com](http://www.sipl.en.alibaba.com)



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We believe solar innovation makes a  
better place to live, both for us and  
future generations...