



VERDANT STAR

BEST WAY TO REDUCE HEAT AT HOME & WORKPLACE

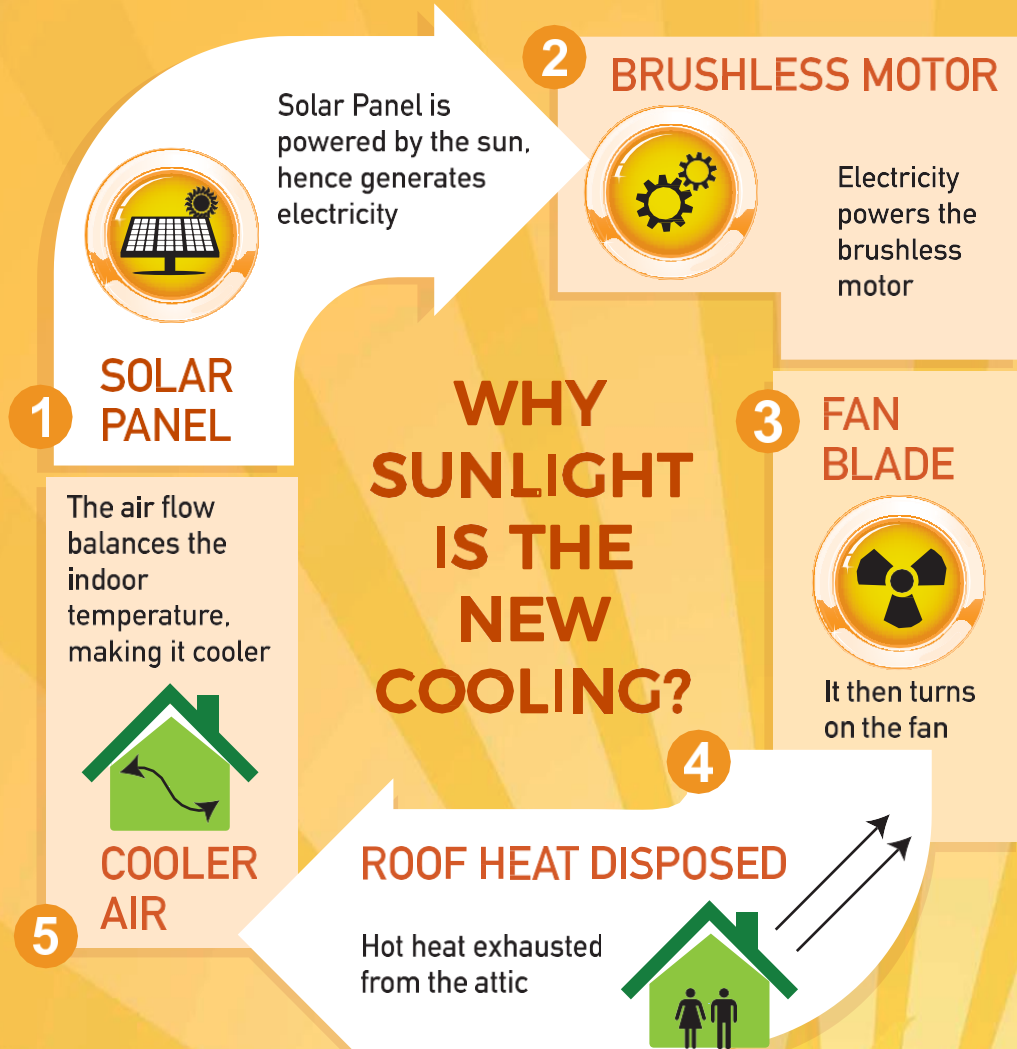
Cooler & Comfortable Home | Reduce Attic Temperature ~15C | Reduce Electricity Bill | Zero Operating Cost |
Zero Maintenance | Active Ventilation



VERDANT STAR is a revolutionary solar ventilation system designed to effectively cool down your home and protect it from airborne moisture which causes damages to building material. Verdant Star works optimally the more intensely the sun radiates on your roof by transforming sunlight to create active air circulation within premise. Our innovative energy efficient ventilation solution comes with an aesthetically beautiful exterior that is the ultimate choice for residential use.

THE PROBLEM

During day time, hot sun radiates on our roof and accumulates heat at the attic. The heat trapped underneath the roof is then transferred to our living space within. Our home becomes hot, stuffy and uncomfortable to live in. The resulting trapped heat cause air conditioner to work extremely hard and longer hours. This causes higher energy bill and shorter air conditioner lifespan.



Solar heat causes elevated attic temperature

Over-heated attic space

Attic heat build up radiates into living space causing uncomfortable living space

VERDANT STAR continuously exchanges air in attic to avoid heat from building up

Cooler attic space

Air vent allows heat from living space to be removed. This active ventilation creates comfortable living space.

Airconditioner compressor does not have to work as hard as usual. This lowers energy bill and increases the life span of air conditioner.



VERDANT STAR IS YOUR IDEAL SOLUTION

VERDANT STAR

A solar roof ventilator with self-contained axial, adopting natural solar power, transforming active ventilation into an efficient mechanism with low dB high quality brushless DC motor. Wiring free and with no dependence on AC grid. Helps to circulate the attic roof space and desired living space.

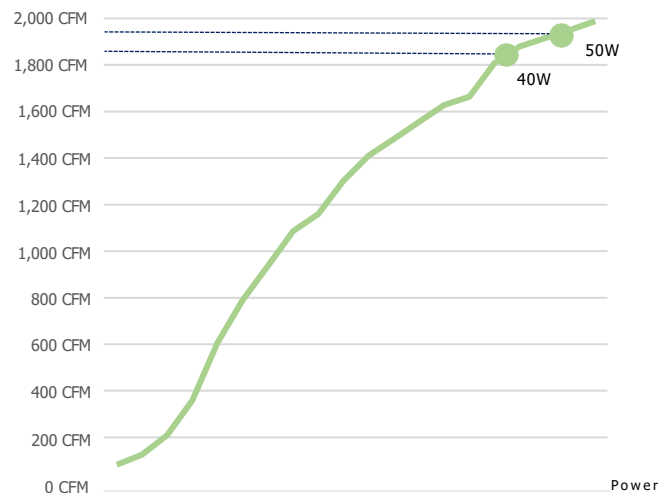
Ventilation improves attic and internal air circulation, lowers moisture & harmful mildews, longer roof lifespan, improves air-conditioner and HVAC system efficiency. Change the way you get power and ventilate your properties using Verdant Star.



*Solar panel varies according to the selected power

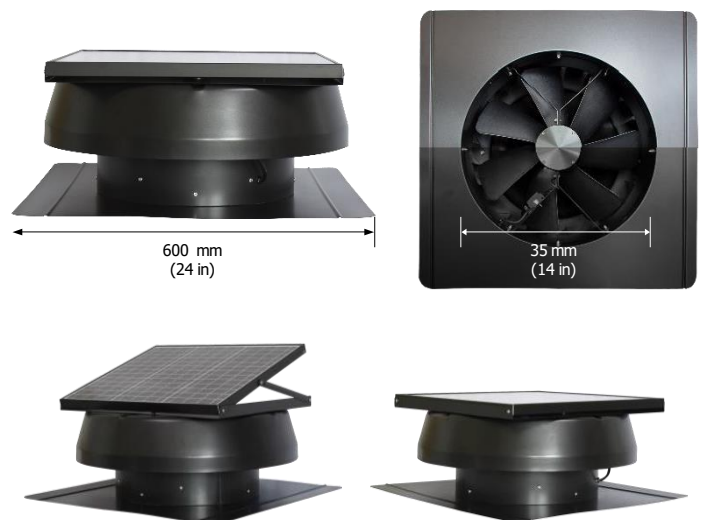
PERFORMANCE SPECIFICATIONS

Solar Panel Type	Polycrystalline Design lifespan 25 years
Solar Panel Range	40W 50W
Motor	Heavy duty brushless DC motor Pure copper motor Aluminium alloy motor shell High quality ball bearing Design Lifespan 10 years
Operational Info	6V to 24V (18V to 21V Adaptor option available)
Max Motor Speed	78RPM to 1123 RPM



MECHANICAL SPECIFICATIONS

Dimensions	600mm x 600mm x 230mm
Weight	12kg± (40W) 12.5kg± (50W)
Mounting Options	Roof mounted Tile, metal deck, Cliploc, Asbestos, Shingle
Bracket Casing	Powder coated galvanised steel
Ingress Protection Rating	IP68 (motor)
Fan Blade	7 Nylon-fibreglass blades (Patented design) Diameter 14inch
Operational Temperature	Design to operate under rooftop condition
Operational Humidity (RH)	Up to 100% condensing
Test Specification	IEC 60335-1:2010+A1:2013+A2:2016; IEC 60335-2-80:2015 Conformity Testing and Certification of Electrotechnical Equipment & Components (IECEE), Geneva, Switzerland.



* The specifications and key features contained in this datasheet may deviate slightly from our actual products due to the on-going innovation and product enhancement. Verdant Solar reserves the right to make necessary adjustment to the information described herein at any time without further notice.

BENEFITS OF VERDANT STAR

CONTINUOUS COOLING EFFECT ①

The hotter the Sun, the better efficiency of Verdant Star. The scorching creates an active air flow within attic hence **reducing attic temperature up to 15°C**

COST SAVING ②

Better ventilation means less reliance on air conditioner. This in long term **saves your penny on electricity bill** as well as extend the lifespan of your air conditioner. Also, it preserves mother earth from ozone thinning due to CO2 emission! Double win!

PROLONGED ROOF LIFE ③

An actively ventilated attic prevents moisture condensation from excess heat which extends the life of roof material. **Extending roof life alone can save you RM500 per year.**



MAINTENANCE FREE ④

Verdant Star continuously removing attic heat and moisture throughout the day, and **do so with absolutely no cost of operating or maintenance required.**

WIRE FREE ⑤

Hacking is always a headache and potentially sacrifices the aesthetics of your beautiful renovated home. As it leverages on Solar energy, **Verdant Star is cordless hence provides more mobility compared to conventional fans.**

ULTRA QUIET ⑥

So quiet, you will not even remember you've got one installed at home.

GO GREEN ⑦

Change the way people get power. Malaysia is a resourceful country highly capable of making Solar Renewable energy big! Your one small effort makes a different. This is the power in leading by example.

SOUTH EAST ASIA'S LEADING VENTILATION SOLUTION

PROVEN SOLUTION BASED ON MORE THAN 8000 INSTALLATIONS IN MALAYSIA & SINGAPORE



"Strongly recommended for double-storey linked with limited ventilation for the upper hall. I rely less on the AC nowadays, only on those really hot days. Very happy with the product and the services rendered by Verdant Solar team."

- Lazada Customer

"Works very well & helped keep house cooler and the fact that it's solar is an added bonus since it uses no electricity! We did see a noticeable drop in our electric bill."

- Lazada Customer

"One thing for sure, day time is much cooler when it is hot in the afternoon. I hardly need air conditioning day time. Cheers"

- Dr Gan, Pulau Pinang

"Great product. Works well with easy installation. Looking forward to more innovative products"

- Chong Eng Par, Kuala Lumpur

"Great Product & Superb Installer. Installation was done timely"

- Noorhisham Anas, Kuching



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