

# 12Vdc Ventilation Fan Kit

## (For Telecom and Off-Grid Applications)

### Summary

Communication Power Solutions, Inc. (CPS Inc.) offers the **12-FK2** 12Vdc Ventilation Fan Kit, a perfect solution for circulating air within a small enclosure/room, powered from a 12Vdc source. The ventilation fan kit can be implemented into any application requiring a simple thermal management solution

The **12-FK2** is an ideal solution for enclosures that support critical loads powered off of 12Vdc. The Ventilation Fan Kit can be powered from the existing battery back up system, allowing the unit to continue to operate during power outages. This will prevent any equipment from

### Standard Features:

- Adjustable Thermal Relay allows you to choose the specific temperature that engages the Ventilation Fans
- Metal Mesh Guard prevents small debris and pests from entering the enclosure through the fan opening
- Standard Package includes (2) Fans, the first to push warmer air outside of the cabinet/room, the second fan pull cooler air from outside into the enclosure.
- Finger Guards provided to prevent items from contacting the fan blades from the inside of the enclosure
- Additional wire is included for termination at the power source

### Specifications:

Operating Voltage (Total):	10.2-13.8 Vdc
Average Current Draw (Total):	3.4 Adc
Average Load (Total):	42 Watts
Noise Level:	62 dB(A)
Dimensions (In):	4.72x4.72x1.496
Dimensions (mm):	120x120x38
Airflow (Per Fan):	200CFM



Shown: 12-FK2 Fan Kit with All Material

**Phone:** 1-800-511-5705

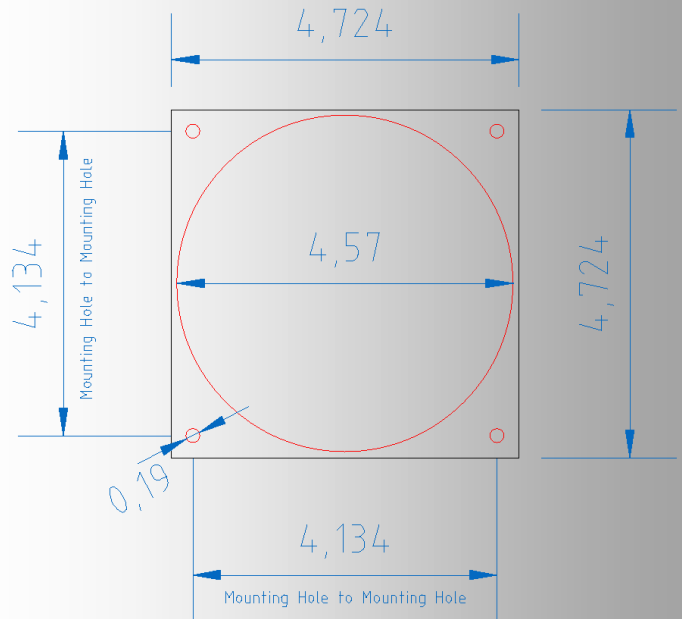
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## Instructions for Installation of 12-FK2 12Vdc Ventilation Fan Kit

### Step 1: Cut Openings where the Fan Kits will be Installed for Air Intake and Hardware

- Use the provided dimensions to cut out the holes needed to install the Ventilation Fan Kit
- A total of (2) fan openings and (8) hardware openings will be needed for the Fan Kit/
- Install the first fan opening at the **highest** point available. This will allow the fan to exhaust the warmest air from the enclosure/room.
- Install the second fan opening at the **lowest** point available. This will allow the fan to intake cool air into the enclosure/room



### Step 2: Mount Fans and Filters onto the New Opening

Using the #8 hardware provided, install the Fans and Filters in the following order;

1. Metal Mesh Guard
2. Fan
3. Finger Guard

This orientation will prevent small debris and pests from entering the openings and prevent object from contact the blades from the inside

- Install the TOP fan so the air is flowing OUT of the enclosure/room. Install the LOWER fan so the air is flowing IN to the room. Air flow identification markers can be found on the side's of the fan frames.

### Step 3: Wire Fan Kits and Set the Thermostat

- We recommend powering the Fan Kit with a **5Amp** Fuse.
- Connect the LOAD Input wire to the **Red** wire labelled "POSITIVE". Connect the RETURN Input wire to the **Black** wire labelled "NEGATIVE".
- Set the temperature on the Thermostat to the temperature point that will power on the fans. The factory default is **80** degrees Fahrenheit.