

Sugar Mountain F16B, F20B, F24B Fan

Congratulations on the purchase of your Sugar Mountain ventilation fan. Our fans offer the latest in fan blade technology as well as a brushless fan motor. This fan is intended for use with 12V or 24V battery banks. It is NOT intended for use with 48V battery banks or AC power of any kind.

Installation

The F16, F20 or F24 is intended to be mounted away from direct water spray. The fan has no guard and for safety, must be installed at least 8' above the ground. It must not be located where a person or animal may come in contact with the blades. The blades are sharp and severe injury may occur. The airflow moves away from the blades opposite the motor. The fan needs to be secured on a minimum of two opposing sides. To mount the fan you must provide a solid "stud" next to the frame. Carefully drill at least 2 holes on each side of the fan frame in order to screw the fan frame into the "stud". Store in a dry place if not in use for more than 4 weeks.

See wire instruction page to wire the fan with optional control. For full speed operation, red=positive, blue=neutral and yellow and white are connected to each other. A simple speed control is available if needed. The best option is to use red wire nuts and place the connections in a junction box, especially if the connection is going to be exposed to the weather. The fan will immediately start if there is more than 12.0VDC and 3 amps of potential current. It is important to note that the fan may not pull 3 amps. If the fan does not start with adequate power supplied, recheck your wiring. The fan will not operate if your positive and negative wires are reversed. Wiring the fan incorrectly can damage the motor. Additionally, use of a switch or a thermostat is recommended to shut off the fan when ventilation is not necessary.

Operation

Brushless motors make a slight "beeping" sound at very low RPMs. This noise is normal and will disappear at higher RPMs. The brushless motor should provide years of trouble free, efficient operation. Motor brush replacements were common on previous fans that we carried. Especially if they were run at high RPMs. With no brushes our fans will outperform other fans.

2 year limited warranty.

Sugar Mountain Fans are designed, assembled and packaged off-grid using clean solar and micro-hydro power.