

POWER VENT INSTRUCTIONS

The POWER VENT must be placed vertically with the label right side up in order for the backdraft damper to function properly.

Place the POWER VENT higher than the top of the battery box and indoors, especially in cold climates.

Use no more than four 90° bends including one at the exterior terminus facing down. Put a screen on the outside pipe terminus to keep insects and debris out.

Use 2" PVC dwv pipe on 12 and 24 volt systems. Use 2" intake and 3" output PVC dwv pipe on 48 volt systems.

Place a 1 amp fuse (included) at the start of the positive circuit wire. A controller is usually used in the circuit to cycle the fan. Either an auxiliary relay in the [Trace SW](#) series inverter, the OUTBACK FX & VFX inverters or a Solar Converters Simple Switch may be used. Refer to the appropriate manual for hook up and programming instructions (also check this website's [faq's](#)). The voltage set points for turning the fan on and off are above the full state of charge voltage of the battery but below the battery gassing voltage. In the case of grid tied systems where the batteries are kept at float voltage 24 hours/day it may be necessary to run the fan full time as the batteries are always gassing.

SET POINTS FOR FLOODED LEAD ACID BATTERIES

SYSTEM VOLTAGE	FAN ON SET POINT	FAN OFF SET POINT	HYSTERESIS (Trace inverters)
12	13.2 VOLTS	13.0 VOLTS	0.2
24	26.4 VOLTS	26.1 VOLTS	0.3
48	52.8 VOLTS	52.2 VOLTS	0.6

LIMITATIONS AND DISCLAIMER.

This vent only moves a small volume of air. It is designed for home systems with typical charging capabilities of 150 DC amps or less. Hydrogen gas creates an explosion risk at concentrations of only 4%. Make sure vent openings are free and clear including safety vent hole at the bottom of the POWER VENT. Periodically check to make sure fan is running during charge periods. Keep your batteries and connections clean and tight. During equalization charges on large systems provide additional ventilation.

Having no control over the use or installation of this product, we assume

no liability connected with its' use. The Power Vent itself is warrantied for 2 years if installed in accordance with these instructions.