

## Internally Regulated Experimental Alternator Information

**\*Plane-Power Alternators are the only internally regulated aircraft Alternators that are fully pilot controllable due to our exclusive rotor wiring circuit.** Automotive alternators supply power to the rotor by means of the output (B+) terminal. In the case of a failed voltage regulator that is shorted to ground the pilot will be unable to shut off the alternator (Without turning off the Master Switch) and could cause damage to avionics when the voltage rapidly rises to an unacceptable level. We believe that being able to control your charging system in any failure mode is essential in aircraft applications.

**\*Plane-Power Alternators are the only internally regulated aircraft Alternators that have built-in crowbar over voltage protection.** The built-in circuit monitors the regulated voltage and if it detects a higher than normal voltage will trip your 5-amp enable circuit breaker and instantly disable the alternator before any damage can be done to your expensive avionics. No external relay etc. is required. The over voltage protection is where it should be built-in and controlling the alternator not extra add on devices that add cost, weight, complexity and reduce reliability!

**\*Plane-Power Alternators are the only internally regulated Alternators that are designed for the rotation of an aircraft engine.** Our dual internal fans are specially designed to provide maximum cooling efficiency on standard aircraft engine installations. Aircraft engines standard rotation is opposite that of an automotive engine. Therefore an automotive alternator will run much hotter on an aircraft engine reducing its efficiency and life expectancy.

**\*Plane-Power belt driven Alternators are the only internally regulated Alternators that are built with a precision machined and anodized drive pulley.** No cheap stamped sheet metal automotive pulleys are used.

**\*Plane-Power Experimental Alternators are built to the same standards as our certified Alternators.** This includes safety wiring all case bolts for added security.

**\*Plane-Power components are all factory new.** No reused components of questionable history as with rebuilt automotive alternators.

**\*Plane-Power belt driven Alternator Kits are designed for simple bolt on installation to your Superior or most Lycoming engines.** This will save many long hours searching, ordering, and fabricating parts.

**\*Plane-Power belt driven Experimental Alternator Kits are supplied with formed mounting brackets that are zinc plated for corrosion resistance.** Once again the same quality as our certified alternators.

**\*Plane-Power belt driven Alternators are supplied with complete Aircraft mounting hardware.** No Hardware Store fasteners are used.

**\*Plane-Power internally regulated Experimental Alternators kits are supplied with a pre-wired enable plug.** Supplied with 12 feet of wire to avoid any inline splices and possible future connection problems.

**\*Plane-Power belt driven Experimental Alternator kits are supplied with an Alternator drive belt for a standard 9 3/4" diameter ring gear support pulley.** We've done the homework so that you don't have to do the trial and error fit method!

**\*Plane-Power Experimental Alternator rotors are precision balanced.** This will provide for increased bearing life.

**\*Plane-Power Experimental Belt Driven Alternator kits** can be ordered for either a "Boss Mount" used on all Superior and most later style Lycoming engines. (Add /B to the end of the alternator kit model for a Boss Mount) they can also be supplied for a case mount application as is used on older style Lycoming engines. (Add /C to the end of the alternator kit model for a Case Mount) If you are not sure which style mount you engine has visit:

[http://www.plane-power.com/Mount\\_Systems.htm](http://www.plane-power.com/Mount_Systems.htm)  
for more details.

**\*All Plane-Power Alternators come with a 2 Year Warranty and No Hour Limitation.** Others offer an hour limitation as low as 100 hours!

**Plane-Power has addressed and solved the problems of internally regulated alternators for aircraft applications and has been able to do it in a cost effective manner for our customers.**