

## AC Powering of Roger Mayer Pedals

### **General Recommendations:**

All of our current range of pedals except the Classic Rocket Series have access to a DC Power Jack that enables the use of an AC Adapter or pedal power supply unit. There are so many types that are on the market that it is impossible to keep up with all the new ones that are released. However all our units are diode protected to prevent damage from reverse polarity and have internal filtering to help maintain the low noise floor that our units have when operated from a 9 Volt Battery. It is always a good idea to check the noise performance especially hum when not using a battery.

### **Output Voltage Rating:**

Our pedals are designed to be operated from a nominal battery voltage of 9 Volts DC and will operate successfully from about 7.8 V to 10 V without any problem. The use of higher voltages may reduce the life of some capacitors but in general voltages of up to 12V could be used but are not recommended.

### **Measure the actual output voltage:**

It is a good idea to check the actual voltage that the pedal is receiving when the unit is receiving power from the power supply or adapter. This is important when using unregulated outputs from AC wall adapters, as this voltage will vary a lot from the stated output voltage when not loaded to the maximum current specification. Hence the term unregulated. This will not be necessary when using a regulated type of power supply, as the output voltage will remain constant for different load currents.

### **Output Current Rating:**

A rating of 50mA or more for each pedal will be adequate.

### **Connecting Protocol:**

A standard DC power jack ( 2.1mm centre pin ) and this uses the standard negative centre pin connection protocol used by many leading manufacturers.

### **Grounding of System:**

Make sure that your Amplifier and equipment is always connected to electrical ground or earth when operating and that all possible and required precautions have been taken to prevent electrical shocks in any location that may operate in. You should not be getting shocks from microphones or anything else. Take time to eliminate all risks from any stage situation that seems dangerous to your health especially outdoors when it is raining.