



## Dragonfly & Dragonfly RT

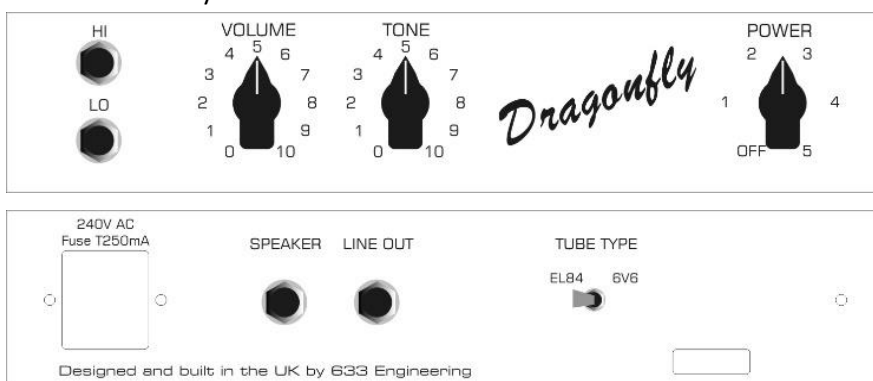
5 Watt Class A Single Ended Amplifiers

*Versatile • Compact • Portable • Hand built in England*

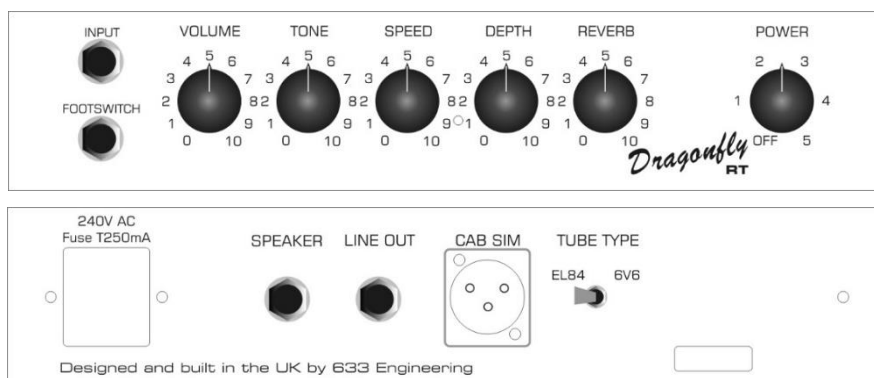
Single-ended amplifiers clip asymmetrically, producing primarily even order distortion, which is very rich, musical and flattering to the electric guitar. A characteristic of this type of circuitry is that as signal level or gain increases the tone becomes full of warmth and sparkle before the onset of audible clipping. The dynamic range over which this occurs is quite large, compared to a push-pull design so cleaner tones will have warmth without too much distortion. And when pushed hard the overdrive will be rich and thick. Beyond a certain point, particularly with lower notes, the distortion characteristics will change and become less sweet, but still musical to many ears. All part of the Single-Ended design's charm. A perfect example would be the Fender™ Tweed Champ which has been used on countless recordings by some of the greatest guitar players and is responsible for many of the timeless guitar tones we love.

The Dragonfly and Dragonfly RT embody the single ended amplifier topology and wrap it with more essential features for today's player. The core of both models is a 5 watt single-ended valve amplifier with Variable Headroom, allowing the maximum output power to be reduced down to around ½ watt. This method of power reduction, unlike the use of resistive or reactive loads, reduces stress on and prolongs the life of the output valves.

The Dragonfly is the perfect model for the player who simply wants to create a great guitar tone and then add effects with pedals or after recording. A simple control set, just Volume, Tone and Power, provide everything required to get a great range of tones from bright spanky cleans to old school rock crunch, from warm jazzy cleans to thick sweet Dumble™ - style overdrive.



The Dragonfly RT takes the elegantly simple all valve circuitry of the Dragonfly and adds Tremolo, Reverb and a Cabinet Simulator output making it the complete package for home use, practice and recording and easy integration into a live set-up. The tremolo is of the optical variety and has a wide range of speed and depth. The reverb is the DSP design found in all 633 amplifiers. The dwell or length of the reverb can be adjusted from short to cavernous by accessing the screw through the small hole in the front panel.



Common to both models is a switch on rear panel which allows the player to switch between two types of output valve, either 6V6 or EL84. This further enhances the tonal palette available from the Dragonfly – the 6V6 having less sensitivity and a thicker tone when over driven whilst the EL84 breaks up much earlier and when pushed hard produces a fabulous rich overdrive tone.

Both models also have a line out which allows the amp to be used as a tone generating pre-amp or booster/overdrive between the guitar and larger amplifier. This also provides a great solution for the player that is touring with limitations on luggage who may be presented with many types of backline and wants some guaranteed consistency.

The Dragonfly and Dragonfly RT are designed, and hand built with love and care in Northamptonshire, England using high quality components to ensure long and trouble-free service. And because they are hand built, in the unlikely event that they require attention, they are straightforward and easy to maintain.

## Dragonfly 1x 10 Combo

### Front Panel

- **Input 1** high sensitivity.
- **Input 2** low sensitivity and link out.
- **Volume**
- **Tone**
- **Power**
- **Illuminated Logo**

### Rear Panel

- **Mains Input** 220-240v AC
- **Mains Fuse** 20mm T250mA
- **Speaker Output**
- **Line Output**
- **Output Valve type** 6V6/EL84

### Specifications

- **Valves** 6V6 x1, EL84 x1, 12AX7 x1
- **Power** 5 watts max variable down to ½ watt
- **Input Impedance** Input 1 - 1 MΩ, Input 2 - 34 kΩ
- **Speaker** Celestion 8Ω
- **Line Output** 100-500mV typical
- **Dimensions** 380mm x 360mm x 230mm
- **Weight** 9.3kg

*Both models are also available in head format to special order.*

## Dragonfly RT 1x 10 Combo

### Front Panel

- **Input**
- **Foot Switch**
- **Volume**
- **Tone**
- **Tremolo Speed**
- **Tremolo Depth**
- **Reverb**
- **Reverb Dwell Time** preset access hole
- **Power**
- **Illuminated Logo**

### Rear Panel

- **Mains Input** Mains Input 220-240v AC
- **Mains Fuse** 20mm T250mA
- **Speaker Output**
- **Line Output**
- **Cabinet Simulator Output**
- **Output Valve type** 6V6/EL84

### Specifications

- **Valves** 6V6 x1, EL84 x1, 12AX7 x1
- **Power** 5 watts max variable down to ½ watt
- **Input Impedance** 1MΩ
- **Speaker** Celestion 8Ω
- **Line Output** 100-500mV typical
- **Dimensions** 380mm x 360mm x 230mm
- **Weight** 9.4kg

[www.633engineering.co.uk](http://www.633engineering.co.uk)

Northamptonshire, UK