



## Technical Data Sheet

### CANFORD BATTERY POWERED HEADPHONE AMPLIFIER MK.2

20-287 BATTERY HEADPHONE AMPLIFIER

#### INTRODUCTION

The Canford Audio battery powered headphone amplifier allows the connection of a pair of stereo headphones to nominal line level sources. Two high impedance electronically balanced inputs, with DC protection, are provided via XLR connectors. A three-position slide switch selects between stereo, mono and M/S formats on the XLR inputs. For stereo use any input on the 'left' input socket appears on the left speaker of the headphones. Similarly audio on the 'right' input appears on the 'right' output of the headphones. For audio recorded in the M/S format, connect the M signal (A+B) into the 'left' socket and the S signal (A-B) into the 'right' input. The amplifier will decode the signals and present them as conventional stereo signals, A and B, into the left and right outputs respectively. With the switch in the mono position, any signals on either or both inputs will appear in both speakers of the headphones.

Outputs are available on 6.35mm A-gauge and 3.5mm stereo jack sockets.

The amplifier is built in a robust, standard extruded box and fitted with protective glass filled nylon bezels.

A three-position switch on the rear of the units allows the amplifier to be powered by an external 9V DC supply, to be switched off or to allow the use of an internal 9V battery.

A Y-lead adapter cable is available as an accessory. This is made up of one 3.5mm jack plug to two 3-pin male XLR connectors and is 1.2m long. It allows the headphone amplifier to be used with PC sound cards and portable sound sources, for example.

A kit is available that includes the Y-lead and a 'plug-in' mains power supply.

The battery headphone amplifier is manufactured by Canford.

#### TECHNICAL SPECIFICATION

<b>Battery:</b>	9V - 4022, MN1604, 6LR61, etc. (PP3 type, not included)	<b>Load impedance:</b>	To suit headphones 8 ohms to 2k ohms (nominal)
<b>Battery life:</b>	Approximately 50 hours (with Alkaline type battery)	<b>Output level:</b>	+ 14dBu max.
<b>Input impedance:</b>	50k ohms	<b>Battery drain:</b>	7mA, no signal. 13mA @ clipping level on music into 200 ohms.
<b>Maximum input level:</b>	+14dBu	<b>Dimensions:</b>	107 x 93 x 50 (mm)
<b>Gain:</b>	+14dB	<b>Weight:</b>	393 grams
<b>Clip level:</b>	+12 dBu into 600 ohms.	<b>Accessories:</b>	20-285 Battery Headphone Amplifier Mk.2 PC kit 38-072 Y-lead, 1.2m long, black. 23-735 Plug-in PSU 3.6VA 9 volt - UK 23-835 Plug-in PSU 3.6VA 9 volt - Euro
<b>Distortion:</b>	0.1% @+14dBu into 600 ohms.		
<b>Frequency response:</b>	20Hz - 20KHz +/-0.5dB		