



CANFORD COMPACT POWER AMPLIFIER

20-311 Canford Compact Power Amplifier, Line input, electronically balanced

20-312 Canford Compact Power Amplifier, Line input, transformer balanced

20-313 Canford Compact Power Amplifier, Mic input, electronically balanced

DESCRIPTION

The Canford Compact Power Amplifier is a mains powered device for use with small monitor speakers such as the LS3/5A, but can be used with larger types if required. The amplifier may be attached to the rear of the speaker by means of the optional mounting accessory. The amplifier is ideal for general purpose use whenever a medium powered, high quality, mono amplifier is required.

To aid matching to professional systems, electronic balanced inputs are supplied as standard, with an input transformer version for situations where complete galvanic isolation may be desirable. A mic input version, (electronic balanced), is also offered with the provision of user selectable input gain.

High gain for dynamic mics, 70dB, factory default.
Low gain, 45dB, for higher output mics.

Link J6 is provided internally on the mic amp module to select the desired gain. Removing the jumper the lower gain setting is selected. If power for the microphone is required then this must be provided externally. The input sensitivity is arranged so that full output may be achieved from "domestic" equipment outlets, as is the input impedance.

A low frequency filter can be selected to avoid driving bass reflex speakers below their cut-off point where no usable output is produced, not only to protect the speaker, but to also reduce intermodulation distortion. This feature may be enabled by removing the volume knob bezel and the front panel, then moving the link on J4 at the front of the PCB to the position marked "In" on the PCB.

Access to zero ohm link LK3, connecting the unit's 0V to chassis is achieved in a similar way. This link may be removed if required to eliminate earth loops, etc.

The output is protected against short circuits and DC offset.

Input connection is by a 3 pin female XLR. The speaker connection is by Neutrik Speakon, with mating connector included. The power switch has an integral indicator. The unit is housed in a robust black extruded aluminium case with an integral heatsink and protective glass filled nylon end bezels.

The unit may be mounted to the rear of a speaker or other flat surface using the optional mounting bracket kit 20-319. The mounting kit includes a pair of brackets, six No. 10, 10mm self tapping screws, washers and a mounting hole template.

Do not cover or otherwise restrict the flow of air around the amplifier.

This amplifier is intended to be used with screened input signal cables.

The use of radio transmitting equipment, such as telephones and hand-held radio sets, near to this amplifier could result in audible interference on the output signal.



The CE mark is applied to this product in respect of the Low Voltage Directive and the Electromagnetic Compatibility Directive. This apparatus complies with the safety and EMC requirements of these Directives when used as intended in domestic, commercial, light industrial and similar general indoor use. It must not be subjected to splashing or dripping.

WARNING! THIS APPARATUS MUST BE EARTHED.

No user serviceable parts accessible. Do not remove covers. Replacement mains fuses must be of a 250V European approved type with identical current and time characteristics.



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ACCESSORIES

20-319	CANFORD MOUNTING BRACKETS For compact power amplifiers (pair)
41-032	NEUTRIK NC3MXX XLR Male cable connector, nickel shell, silver-plated contacts
43-0031	NEUTRIK NL2FXX-W-S SPEAKON Cable connector, 6-12mm
42-154	BULGIN PX0587 IEC MAINS CONNECTOR C13 type, female, cable

TECHNICAL SPECIFICATION

Input sensitivity:	-15dBu to +15 dBu for full output (line input version)
Input impedance:	> 47 k Ω (line input version)
Input filter:	80Hz , -3dB point, 12dB/oct (user selected option)
CMRR:	> 35dB, 1kHz-10kHz, (electronically balanced line input version)
Rated Continuous Output:	28W RMS into 8 Ω @ 0.5% THD; 230V AC (30W RMS into 8 Ω @ 0.5% THD; 240V AC) 35W RMS into 4 Ω @ 0.5% THD; 230V AC
Peak Output Power:	60W into 8 Ω @ 0.5% THD; 230V AC
Frequency response:	20Hz-40kHz , -3dB points (HP filter out of circuit) 50Hz-20kHz , ± 0.5 dB (HP filter out of cut.)
THD:	< 0.05% @ 1kHz, 22kHz bandwidth, up to full power
Supply:	230V AC, 50/60 Hz; 50W at maximum output load.
Supply fuse:	1A (T), 250V, 20mm; Stock code: 42-271
Dimensions:	175 x 110 x 60
Weight:	1.56kg