

# PRODUCT DATA

## Audio Power Amplifier 100W Stereo — Type 2716C

*Audio Power Amplifier Type 2716C is a high-performance power amplifier optimised for sound and vibration applications. It can be used as a general-purpose power amplifier for electroacoustic applications.*

### USES

- Driver for loudspeakers, artificial mouths, etc.
- General-purpose audio power amplifier
- Power amplifier for audio analyzers
- Easy to install in a 19" rack

### FEATURES

- Output-level meter
- Selectable gain
- Two balanced inputs



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## Description

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Audio Power Amplifier Type 2716C has two channels that can be used independently or jointly (using the **Link A + B** and **Reverse Polarity B** switches, and Bridging Cable AQ0621). Signals enter electronically balanced inputs via XLR through Input CH.A. and Input CH.B. connectors. Output is approx. 300 W and is relatively independent of load.

Audio Power Amplifier Type 2716C is compact and fits in a 19" rack. It has the same features and protection circuits normally found only in higher powered amplifiers.

### *Quiet Operation*


Type 2716C uses passive cooling during operation which removes the need for a cooling fan. The lack of a cooling fan, in turn, makes Type 2716C very quiet during operation.

### *Extensive Protection*

Power Amplifier Type 2716C has circuits that protect it against short-circuits, DC, overheating, VHF and clipping (clip limiter may be switched off).

**2716C**

# Compliance with Standards

	CE-mark indicates compliance with: EMC Directive and Low Voltage Directive. C-Tick mark indicates compliance with the EMC requirements of Australia and New Zealand
<b>Safety</b>	EN 61010-1 and IEC 61010-1: Safety requirements for electrical equipment for measurement, control and laboratory use. UL 3111-1: Standard for Safety – Electrical measuring and test equipment
<b>EMC Emission</b>	EN 50081-1 and IEC 61000-6-3: Generic emission standard. Part 1: Residential, commercial and light industry. EN 50081-2 and IEC 61000-6-4: Generic emission standard. Part 2: Industrial environment. CISPR 22: Radio disturbance characteristics of information technology equipment. Class B Limits. FCC Rules, Part 15: Complies with the limits for a Class B digital device.
<b>EMC Immunity</b>	EN 50082-1 and IEC 61000-6-1: Generic immunity standard. Part 1: Residential, commercial and light industry. EN 50082-2 and IEC 61000-6-2: Generic immunity standard. Part 2: Industrial environment. <b>Note 1:</b> The above is guaranteed using accessories listed in this Product Data sheet only.
<b>Temperature</b>	IEC 60068-2-1 & IEC 60068-2-2: Environmental Testing. Cold and Dry Heat. Operating Temperature: +15°C to +35°C (59 to 95°F) Storage Temperature: -25 to +70°C (-13 to 158°F)
<b>Humidity</b>	IEC 60068-2-3: Damp Heat: 90% RH (non-condensing at 40°C (104°F))
<b>Mechanical</b>	Non-operating: IEC 60068-2-6: Vibration: 0.3 mm, 20 m/s <sup>2</sup> , 10–500 Hz IEC 60068-2-27: Shock: 1000 m/s <sup>2</sup> IEC 60068-2-29: Bump: 1000 bumps at 250 m/s <sup>2</sup>

## Specifications – Audio Power Amplifier Type 2716 C

### MAXIMUM OUTPUT POWER<sup>1</sup>

Load	Max Power	Continuous Power
8 Ω stereo	100 W	35 W
4 Ω stereo	150 W	50 W
2 Ω stereo	160 W	55 W
8 Ω bridged	300 W	100 W
4 Ω bridged	320 W	110 W

### SPEAKER PROTECTION

Each channel is separately protected by a fuse on the positive and negative power supply branch. Electronic short circuit protection with a progressive characteristic is provided. Output power will be progressively reduced below 3 Ω. The power amplifier can be run short-circuited for a long time without damage and is open circuit and mismatch proof

### INPUTS AND OUTPUTS

**Sensitivity:** Switchable for full output into 4 Ω, 0.775 V<sub>rms</sub> or 1.73 V<sub>rms</sub>

**Gain:** 30 dB ± 1 dB

**Input Attenuator:** 0–30 dB in 6 dB ± 0.2 dB steps

**Impedance:** 20 kΩ balanced

**Common Mode Rejection** 70 dB@1 kHz

**Power Bandwidth:** 12 Hz–50 kHz

1. Measured specifications for a 230 V regulated AC power supply and at 20°C ambient temperature

**Slew Rate:** 25 V/μs

**Output Impedance:** 0.03 Ω at 1 kHz

**Hum and Noise:** More than 105 dBA below max. power

**Channel Separation:** 90 dB@1 kHz; 80 dB@10 kHz

**Phase and Delay:** ±2° deviation from perfect delay 150 Hz – 20 kHz; 3.8 μs total delay from input to output into 4 Ω

### FRONT PANEL

**Gain Controls:** 2–channels, A and B

**Clip Indicator:** 2 red LEDs, fast peak and slow release

**Protection Indicator:** 2 yellow LEDs, 90°C at heat sink or below 180 V AC or > 20 kHz at full power

**Present Indicator:** 2 green LEDs, -25 dB at input

**On Indicator:** 2 green LEDs, DC rail voltage for channel A and B

### REAR PANEL

**Input Connectors:** Two XLR-type, 3-pin female (pin 2+)

**Output Connectors:** Two Neutrik, 4-pin, Speakon sockets

**Bridging Switches:** Stereo/Link A+B/Channel B pulse normal

**Clip Limiter:** On/Off

### POWER REQUIREMENTS

**Voltage Selector:** 230 V/115 V

**AC-mains Fuse:** 4 A slow

### DIMENSIONS

**W × H × D:** 48.3 × 4.4 × 25.5 cm (19 × 1.7 × 10 inches)

### WEIGHT

7.5 kg (16.5 lb)

## Ordering Information

Type 2716 C 001 Audio power amplifier (no accessories)  
Type 2716 C Audio Power Amplifier with the following accessories:  
2 × WL 1324 BNC to XLR cable, 3 m  
2 × WL 1325 2 Banana to Speakon™ cable, 5 m

### OPTIONAL ACCESSORIES

AQ 0621 Bridging cable