CP8506

electronics

Four-Channel 48V Phantom Power Supply

Specifications

Number of Channels	4
Regulated Output Voltage	48V ±2V DC
Short Circuit Output Current	14 mA per channel
Residual Output Noise	–71 dBV
Frequency Response	10-25,000 Hz
AC Input	100-120V AC, 50-60 Hz, 6 W max.
Line Cord	1.8 m (6') long, 18 gauge 3-conductor SVT Plastic jacket, grounded plug
Dimensions	196.9 mm (7.75") W x 114.3 mm (4.50") D x 44.5 mm (1.75") H

In the interest of standards development, A.T.U.S. offers full details on its test methods to other industry professionals on request.

Specifications are subject to change without notice.

Features

- **Provides phantom power for up to 4 microphones**
- **Highly regulated power supply provides a constant voltage source, even with a heavily loaded input**
- **Regulator IC is internally protected to prevent overheating even if shorted**
- **XLR-type inputs and outputs**
- **On/Off Switch and Power LED**
- **AC line-powered with integral power cord**
- **Rugged steel housing provides shielding from electrostatic interference**

Description

The Audio-Technica CP8506 provides 48V phantom power for up to four microphones, allowing the use of remote-powered microphones with systems that do not supply phantom power. A line-powered device, the CP8506 includes an attached 1.8 m (6') grounded line cord and a power switch with an associated LED indicator. The unit features a highly regulated power supply which provides a constant voltage source, even with a heavily loaded input. The regulator IC is internally protected to prevent overheating or damage even if shorted. The rugged steel case is finished in enamel and provides shielding from electrostatic interference.

The CP8506 will adequately supply phantom power to the microphones connected to them via XLR-type connectors; additional phantom power (from a mixer or other source) is unnecessary, and is not recommended. For optimum phantom powering, an uninterrupted line must exist between the phantom supply and the microphone; no filters or transformers should be present.

Architect's and Engineer's Specifications

The four-channel external power supply shall supply 48V DC phantom power for up to four individual microphone circuits. It shall incorporate a highly regulated DC voltage supply designed to operate continuously even under heavy load. It shall be powered from a 100V to 120V AC line circuit and not require any external adapter or external transformer for operation. The unit shall be equipped with a rocker type on/off power switch and an LED shall illuminate showing the device is on. The internal regulator IC shall be internally protected to prevent overheating or damage even if the microphone inputs are shorted. The unit shall be 196.9 mm (7.75") wide, 114.3 mm (4.50") deep and 44.5 mm (1.75") high. It shall be constructed in a heavy-duty metal case designed to provide shielding from electrostatic interference. Finish shall be black enamel and all controls and connections shall be clearly labeled.

The Audio-Technica CP8506 is specified.

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