

Single-Channel 48V Phantom Power Supply



Specifications

Number of channels	1
Regulated output voltage	48V $\pm$ 2V DC
Short circuit output current	14 mA
Residual output noise	-71 dBV
Frequency response	10-25,000 Hz
AC Input	100-120V AC, 50-60 Hz, 2 W max.
External power supply	UL and CSA approved AC Power Module with 1.8 m (6') cable
Dimensions	130.0 mm (5.12") W x 60.0 mm (2.36") D x 44.0 mm (1.73") H, typical

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 one microphone
- 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
- AC line-powered
- Rugged steel housing provides shielding from electrostatic interference

Description

The Audio-Technica AT8801 provides 48V phantom power for a single microphone and allows the use of remote-powered microphones with systems that do not supply phantom power. Powered by AC line voltage, the AT8801 includes a plug-in power module that attaches to the electronics module with a 1.8 m (6') cable. 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 AT8801 will adequately supply phantom power to the microphones connected to it 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 single-channel external power supply shall supply 48V DC phantom power for a single microphone circuit. 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 using an external transformer connected to the unit by a 1.8 m (6') line cord. The internal regulator IC shall be internally protected to prevent overheating or damage even if the microphone inputs are shorted. The unit shall be 130.0 mm (5.12") wide, 60.0 mm (2.36") deep and 44.0 mm (1.73") 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 AT8801 is specified.



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