



Model OAA101 Audio Power Amplifier

OPHIR_{EMC} Model OAA101 Audio Power Amplifier is designed for conducted susceptibility testing as specified in EMC standard Mil-Std-461, RTCA DO-160 and additional EMC specifications. The Audio Amplifier is used in conjunction with OPHIR_{EMC} Model OCT101 Coupling Transformer. The Model OAA101 provides a DC to 300 kHz bandwidth and up to 1000 watts power. Amplifier has protection circuitry from input overloads, improper outputs (including shorted and improper loads), over-temperature, over-currents and over-voltages. There is a Digital Voltmeter display on the front panel along with LED's displaying ready, over-temperature, over-voltage and over load conditions. Forced air cooling. Capable of being computer controlled. Designed to stand alone or be rack mounted.

Specifications:

Frequency Range:	DC to 300 kHz
Output Power:	1000 Watts
AC Input Power:	115/230 V, 50/60 Hz
Input Signal:	0.5-2.0 Volts RMS
Input Impedance:	50 Ohms
Output Impedance:	2.0 Ohms
Output Voltage:	>40 V RMS, 0-150 kHz
Distortion:	≤ 0.3%
DC Drift:	>±1.5 mV (after 30 minutes of operation)
Phase Response:	±5 degrees
Residual Noise:	300 μV
Signal-to Noise Ratio:	-100 dB
Voltage Gain:	20 volts/volts
Gain Linearity:	0.15% (over input signal, from 0.2V to 5V)
Common Mode Rejection:	-60dB with 5 v input
Input Connector:	Type BNC
Output Connections:	Standard 3/4" Binding Post (or barrier strip)
Size:	TBD
Weight:	TBD