MODEL AL-100-HF-A HIGH FREQUENCY POWER AMPLIFIER

The model AL-100-HF-A power amplifier is a wide-band, full complimentary class AB linear amplifier. The output impedance is zero because of the negative feedback. Our customers use the amplifiers for plasma excitation, induction heating, EMC testing, EMI testing, magnetic field generation and testing products such as Helmholtz coils, piezo elements, inductors, capacitors. Our power ratings are for continuous duty at full power with +0.7 to -0.7 power factor.

Specifications of model AL-100-HF-A Power Amplifier

Specifications of model AL-100-III -A Fower Ampliner			
Output:			
Output Power:	100 watts		
Output Volts:	0-28 V rms. adjustable (Optional external outpu	t transformers to oth	ner volts are
Frequency Range: Maximum Output Current: Output Distortion: Hum and Noise: Output Impedance: Output Volt Meter: Short Circuit Protection: Thermal Protection: Power Factor Range:	available at additional charge.) 5 Hz to 800 K Hz 3.57 A rms. 1% T.H.D. @ midband, 2% @ 200K Hz -60dB below full output Zero ohm (50 ohm matching at request) 2% front panel analog Meter Input line circuit breaker; Output circuit breaker Auto-reset thermostat prevents heat damage +0.7 to -0.7 for full power; to zero @ reduced power	DIMENSIO	N DRAWING
Input Signal: Input Signal Req.: Input Impedance: Input Waveform:	0-2 V rms. 5K ohm Sine Wave (Square and triangle waveforms will work at less bandwidth.)	16.0"	
Input Power:			
Power Efficiency:	45% max.	1.06"	
Input Power Reg.:	120 V AC 60 Hz (Default) or 230 V, 60 Hz	<	19.0">
Input Line Ampere Req.:	2.5 A @ 120 V AC; 1.25 A @ 230 V AC		
Other Specifications: Dimensions: Weight:	5.25"H X 19"W X 16"D 35 lbs	↑ 5.25" ↓	
Cooling Method:	Internal heatsink and force fan		- 17.0"
cooming motilou.	(Intake-rear; Output-vent holes on side panels)		17.0
Operating Temp Range: Storage Temp Range:	-20 to 140 deg F -40 to 170 deg F		

Options:

1. DC Coupling

Normally our power amplifiers are AC coupled and usually supplied by us with output transformers to provide the voltage ranges specified by the customer. However, if specified the power amplifier amplifiers can be DC coupled (add "-DC" to the end of part number). As a result, the frequency response of the power amplifiers will be DC to 800K Hz at 0-28 V rms.

2. Output Transformers

Our output transformers can go up to 10K V rms. or 800 A, depending on desired frequency range. Consult factory for information on our standard or custom output transformers.

Amp-Line Corp.

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