

MINIMA ONE

modular amplifier

FEATURES

Universal Input Voltage with Automatic Selection	Full Bandwidth
Power Factor Correction	Very Low Distortion
Output Short Circuit Protection	Power On Build In Test
Thermal Protection	InGenius® balanced line receiver
1350 Watts	Limit and Fault LED Indicator

DESCRIPTION

The Minima One™ amplifier is both a high fidelity and a high efficiency amplifier. With efficiency well over 80%, it provides more power to the loudspeakers and creates less heat in the amplifier. In real world applications there is practically no heat emitted from the amplifier and thus it requires no cooling fan. Switching at 250 kHz with single cycle error correction insures extremely low distortion and high reliability. The power factor corrected AC power input, automatically and continuously adapts to any voltage between 88 and 270 volts, making the Minima One™ convenient and stable to operate on any power grid in the world.



Minima One installed on a PTA2002-R

SPECIFICATIONS

Rated Power:

1350 Watts @ 4 Ohm load
675 Watts @ 8 Ohm load

Frequency Response:

20-20kHz +/- 0.5 dB

Half Power Bandwidth:

50kHz

THD + Noise:

.2% Worst case, 30kHz
Measurement BW
.01% 1 kHz 100W, 30kHz
Measurement BW

Output Current Limit:

>52 Amp
Protection circuit threshold

Switching Frequency:

250 kHz Amplifier
140 kHz Power Supply

Output Current Limit:

>10 Amp
Protection circuit threshold

Output DC Offset Voltage:

=/-50 mV

Power Supply Ripple Rejection:

>65 dB Large and small signal ripple

Damping Ratio:

450-100Hz, 8 Ohm load

Dynamic Range:

110 dB

Input:

InGenius® balanced line receiver
Input Impedance: 48kOhm

Gain:

Cal = Calibrate position (12:00)
Cal: 26dB Gain
Full: 30dB Gain (right position)
Off: 0 Gain (left position)

Input Voltage:

2v Input Drives Amplifier to Full Output
in "Cal" position

Hi Pass Filter Frequency Switchable:

-6 dB @ 8 Hz
-6 dB @ 50 Hz
-6dB @ 95 Hz

Hi Pass Filter Slope:

12 dB/octave

Optically Isolated Remote Sleep:

Apply 5 to 24 Volts DC to mute terminals

Green LED:

On

Yellow LED:

System Limit

Red LED:

System fault / sleep mode

AC Input Voltage:

88 Volts Minimum
275 Volts Maximum

Power Factor:

.95

Weight:

6 lbs
3 kg

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ABOUT THE MINIMA ONE

The Minima One amplifier is both a hi fidelity and a high efficiency amplifier. The Minima One is more than 80% efficient providing more power to the loudspeaker and creating less heat in the amplifier. Incorporating patented technology, the comparison circuit of the Minima One corrects each individual cycle to drive error to zero at the end of every cycle. On average every 4 microseconds the one cycle modulator transforms and amplifies the input signal into the ideal natural pulse width modulation. Switching at 250kHz with the single cycle error correction insures extremely low distortion and high reliability.



The power factor corrected AC power input automatically and continuously adapts to any voltage between 88 and 275 volts. The Minima one is convenient to power and stable to use on any power grid in the world.

The Minima One is available in most Bag End Loudspeaker models providing an on board powered system option. Each powered loudspeaker system is individually adjusted for the correct maximum power and protection settings insuring a reliable high performance powered loudspeaker solution.

ABOUT BAG END® LOUDSPEAKERS

Bag End loudspeakers began in 1976 in a small shop by people dedicated to the pursuit of making high quality loudspeaker systems. Over the decades Bag End® has employed the very best construction techniques and innovative acoustical designs into their products. The ground breaking introductions of the Time-Align® and ELF™ Technologies into sound reinforcement and studio monitor loudspeakers in the 1980's was followed by Minima One™ self-powered systems and the highly unique E-Trap™, electronic bass trap. Over the decades, Bag End® has been a leader in providing uniquely good sounding products and extraordinary service to our customers world wide.

MO-1 AC POWER DRAW

Power	Audio Watts	EFF	AC Line Volts	AC Line Watts	AC Line Amps	Audio Watts Per 1 Amp
Full	1350	80%	120	1688	14.1	96
1/3	445.5	80%	120	557	4.6	96
Full	675	80%	120	844	7.0	96
1/3	222	80%	120	278	2.3	96
Full	1350	80%	240	1688	7.0	192
1/3	445	80%	240	557	2.3	192
Full	675	80%	240	844	3.5	192
1/3	222.75	80%	240	218	1.2	192

Full power is based upon a continuous sine wave signal.

1/3 power is based on pink noise and is typical of rock music program material with severe clipping

1/3 power is a good guideline to use when specifying the AC power load requirements. When specifying AC power and outlets it is good general practice to allow an additional 20% capacity above the calculated load.

