

MA3501t

EFFICIENT CLASS G HIGH CURRENT MONO-BLOCK 350 W AMPLIFIER



Specifications: MA3501t

Mounting hardware included

Nominal Impedance	30 Hz - 65 kHz +0, -3 dB Direct 30 Hz - 50 kHz +0, -3 dB Transformer
Input Impedance	20K unbalanced, 10K balanced
Input Sensitivity	175 mV for full output unbalanced/balanced/Variable
Frequency Response (\pm 0.25 dB)	20 - 100 kHz Hz +/- 3 dB Direct, 30 Hz - 35kHz +/- .5 dB
Max. Program Power	40Hz - 60 Hz
Power per Channel @ < 10 % THD	Direct Output 350W - 25V/70V/100V < .1% THD Transformer Output
Power per Channel @ < 1 % THD	350 Watts RMS < .1% THD @ 4 Ohms, 700 Watts peak
Bridged Mono Power @ < 1 % THD	Direct Output 225 Watts RMS < .1% THD @ 8 Ohms, 400 Watts peak
Power Requirements	120V: 3A @ 8 ohms, 5.5A @ 4 Ohms
Amplifier Output Power	225 Watts RMS < .1% THD @ 8 Ohms, 400 Watts peak, Direct Output 350W - 25V/70V/100V < .1% THD Transformer Output
Inputs	Dual RCA Unbalanced/Single Euro Block Balanced
Height (SM = Height)	88.9 mm / Without Feet: 3.5 in
Diameter (SM = Width)	482.6 mm / 19 in
SM Depth (Including Bracket)	349.25 mm / 13.75 in
Weight	13.38 kg / 29.5 lbs
Regulatory - CE	approved
Regulatory - RoHS	approved
Applications	The MA3501t is ideal for distribution of mono audio to speakers throughout a facility. Applications include hospitality, corporate, retail, education, government, themed entertainment and other commercial applications.

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Description

Designed for distributed sound applications, the MA3501t amplifier incorporates large toroidal power and audio output transformers for high power handling, and offers transformer taps at 25, 70 and 100 volts plus bypass mode. It delivers 350 watts into 4ohms, 25V, 70V and 100V; and 225 watts into 8 ohms, with a frequency response of 30 Hz - 35 kHz +/- 0.5 dB. Inputs are RCA (unbalanced) and Euroblock (balanced) connectors, with outputs to speakers via Euroblock connectors. A selectable limiter is provided, along with a 3 position subsonic filter (40Hz, 60Hz or off); auto music sensing and a 12V trigger option are provided for remote activation / deactivation.

The unit occupies two rack units; it is fan-cooled and offers overload, short circuit and heat protection along with peak output protection. All controls for the MA3501t are presented on the rear panel to deter tampering with levels or settings. The MA3501t is for use with SoundTube and Rockustics products. When in use in conjunction with outdoor

speakers, the amp should be placed inside or in a weatherproof concealment.

Applications

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Patented Technologies

SoundTube Entertainment and the MSE Audio Group constantly develop new technologies which enhance audio product performance. SoundTube Entertainment innovations are protected by multiple U.S. and international patents, which explicitly cover SoundTube dome, enclosure and dispersion technologies. The MSE Audio Group actively defends its patents in order to protect SoundTube resellers and end-users.

Patented Rockustics

Technologies

Rockustics and MSE Audio Group constantly develop new technologies that enhance audio product performance. Rockustics innovations are protected by multiple U.S. and international patents, which explicitly cover Rockustics dispersion, enclosure and dome technologies. MSE Audio Group actively defends its patents in order to protect Rockustics resellers and end users.

Technical Data and Specification Tools

Technical Data

SoundTube Entertainment strives to provide complete and effective technical information and data to dealers, engineers and designers. All data are available from SoundTube Entertainment or at www.soundtube.com. Technical data and downloads include: EASE™ data - 3-D polar plots. EASE™ Address - 2-D modeling for distributed systems Autodesk® Revit® software Tech Sheets - Technical information and architectural specs for

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system engineers
SoundTubeSPEC™ -
Proprietary speaker
placement software

Data Acquisition and Verification

All data for SoundTube speakers are independently collected from and verified by NWAALabs (www.nwaalabs.com) using their proprietary MACH testing system. All data are collected and analyzed according to ASTM, ISO and AES standards using EASRA, TEF and MLSSA. Full balloon data including both phase and magnitude are compiled into a variety of formats including EASE 4.x, GLL and CLF.

Preliminary Technical Information

- Efficient Class G high current mono-block 350 W amplifier
- Large Toroidal power transformer and audio output transformer
- Taps for 25V, 70V, 100V and bypass
- Balanced inputs (Euroblock) and unbalanced inputs (RCA)
- Euroblock outputs
- All controls located on rear panel
- 30 Hz - 35 kHz +/- 0.5 dB frequency response
- User-selectable limiter

- 3-position subsonic filter
- Automatic music sensing
- 12V trigger for remote activation/deactivation
- Overload, short circuit and heat protection along with peak output protection

Architectural Specifications

The amplifier shall be a 350-watt mono amplifier. It shall deliver 350 watts into 4 Ohms, 25V, 70V or 100V, and 225 watts into 8 Ohms. The amplifier shall provide balanced and unbalanced inputs. Unbalanced inputs shall be presented on RCA connectors while balanced inputs shall be presented on a Euroblock connector that accepts from 12 to 22 gauge wire. Outputs shall be presented on a Euroblock connector that accepts from 12 to 22 gauge wire. A selectable limiter shall be provided along with a three position subsonic filter. Music sensing and 12V trigger options shall be available for remote activation or deactivation. Performance specifications of a typical production unit shall include a frequency response of 30 Hz to 35 kHz +/- 0.5 dB. The amplifier chassis shall be constructed of steel with a powder coat

finish. It shall incorporate an internal power supply and shall accept input voltages of 110 to 240 VAC. It shall be rack mountable and shall occupy two rack units when mounted. The system shall be the SoundTube MA3501t.

Rockustics

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All SoundTube products come with a 5-year limited warranty.

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Mechanical Drawings

