LMA Series

LINKABLE MONO AMPLIFIERS

TECHNICAL DATA SHEET

PRODUCT SUMMARY

The AtlasIED LMA series are single-channel, multi-impedance amplifiers designed for use as a standalone zone amplifier or as a second zone amplifier when linked with an AtlasIED DMA series mixer-amplifier.

All amplifiers in the LMA series share the same design features, differing only in their power handling capabilties. Choose from the 100 W LMA101, 200 W LMA201, or 400 W LMA401.

The LMA series are engineered for maximum versatility, making them ideal for both commercial 25 V/70.7 V/100 V distributed audio systems and sound reinforcement applications that demand amplification for low impedance loads such as 2, 4, or 8 ohms. The advanced switch mode, global auto-sensing power supply ensures consistent performance even under fluctuating power conditions. Together, the power supply and output stage are precisely designed to deliver exceptional dynamic output, providing high voltage and current simultaneously to drive virtually any loudspeaker load with reliability and clarity.

The LMA Series is equipped with a wide range of integrator-friendly features, including balanced line inputs, electronically summed RCA jacks, rear panel detented gain control, remote level control, and GPI control ports for low power standby mode or priority override. The amplifiers feature an automatic speaker system test known as Push Here Diagnostic (PHD). With a single press of the PHD button, the amplifier checks connected speaker lines for wiring and impedance errors. Once all speakers are installed, the circuit automatically confirms that tap settings do not exceed the amplifier's rated power, ensures no speakers are incorrectly tapped at 8 Ω, and verifies that the wiring is free from shorts.

The LMA series is designed to seamlessly integrate with DMA Series mixer-amplifiers, serving as the second channel to act as an independent Zone 2, subwoofer, or Zone 1 expansion. Connection is simple, requiring only standard Ethernet cable. With Zone 2 Link ports, audio and data are gain-matched for consistent performance between amplifiers. The LMA can be installed up to 100 meters from the DMA amplifier, offering flexible placement options.

Whether your application involves a large distributed constant voltage sound system, a high SPL sound reinforcement system, or both, the AtlasIED LMA Series is the solution for a multi-functional, high-power, and cost-effective amplifier.

KEY FEATURES

- Single Amplifier Channel
- Load Configurations - 2 Ω, 4 Ω, 8 Ω, 25 V, 70.7 V and 100 V
- Energy Efficient, 1 W Standby GPI.
- Convection cooled (LMA101), variable speed fan (LMA201, LMA401)
- Priority Mute GPI
- Rear Attenuators
- Compatible with remote level controllers (DMA-V, DMA-VS)
- PHD Speaker Diagnostic System
- Zone 2 Link to DMA series mixer-amplifiers
- Compact 1 RU, half rack
- Rack kit included

APPLICATIONS

The AtlasIED LMA Series one-channel amplifier is a high-power, multi-impedance amplifier designed for versatility in both commercial distributed systems and sound reinforcement low impedance applications. This makes the LMA series ideal for use in:

- Restaurants
- Presentation rooms
- Classrooms
- Retail background/foreground music applications

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LMA Series

LINKABLE MONO AMPLIFIERS

TECHNICAL DATA SHEET

AUDIO SPECIFICATIONS/PERFORMANCE

System			
Model	LMA101, LMA201, LMA401		
Type	Power Amplifier, 1 Channel		
Power Supply Type	Switch Mode - Wide Range 100-132V/208-264V		
Amplifier Topology	Class D		
Number of Fixed Inputs	1		
DSP Internal	No		
Network	No		
Optional Card Slot	No		
Output Power[1]	**LMA101**	**LMA201**	**LMA401**
Power 1 Channel			
4 Ω, 8 Ω, 70.7 V, 100V	100 W	200 W	400 W
25 V[7]	100 W	150 W	200 W
2 Ω[8]	50 W	100 W	200 W
Factory Default Settings (As Shipped)			
Amplifier Configuration	1 Channel		
Level Controls	Rear Panel		
Control Ports (Rear Panel)	Standby OFF, Priority Mute OFF		
Load Configuration	70 V		
Inputs			
Input Quantity	Qty. 1		
Input Type	1 Balanced Line, 1 RCA (L & R are summed); Connectors are in parallel		
Input Connectors Type	3.5 mm Euroblock, 3-Position		
Input Impedance	20 kΩ (Balanced), 10 kΩ (Unbalanced)		
Input Sensitivity	775 mV Balanced, 316 mV RCA		
Maximum Input Level dBu	Balanced: 20 dBu, RCA:16 dBu		
Level Control			
Rear Panel	Recessed rotary detented attenuator		
Status Indicators Front Panel			
AC Mains/Power Supply Status Indicator, Multi Color			
Power	Blue		
Standby	Yellow		
AC Mains Out of Safe Operating Range	Red (Flashing)		
Temp	Yellow (Flashing)		
Protect/Fault	Red		

(CONTINUED ON NEXT PAGE)

LMA Series

LINKABLE MONO AMPLIFIERS

TECHNICAL DATA SHEET

AUDIO SPECIFICATIONS/PERFORMANCE

Channel Status Indicator, Qty. 1 Per Channel, Multi Color	
Signal	Green
Output Limit	Yellow
Output Protect	Red (Steady)
Over Current / Fault	Red
Temp Condition	Yellow (Steady)
GPI Port (Rear Panel)	
Number of Ports	3 (Standby, Priority, Ground)
Type of Connector	Euroblock, 3.5 mm pitch, 3-position
Functions	Standby (Energy Save Mode), Contact Closure Enables Standby
Functions	Priority Mute, Contact Closure Enables Mute
Control Port (Rear Panel)	
Number of Pins	1
Type of Connector	RJ45 - Yellow (Not Ethernet)
Functions - Remote Level Control	Connects to DMA-V Accessory - 1 Control for Remote Level
Functions - Source Selection	Connects to the DMA-VS Accessory; 1 Control for Remote Level + 1 Control for Input Source Selecton when connected to a DMA Amplifier
Control Port Max Distance	100 m maximum distance between LMA Amplifiers and DMA-V or DMA-VS accessory
Zone 2 Link Port (Rear Panel)	
Number of Ports	1
Type of Connector	RJ45 - Blue (Not Ethernet)
Functions - Zone 2 Link BUSS	Connects to DMA Amplifer, Bi-Directional communication between DMA and LMA Amplifiers, Balanced Audio Line Input (1 V)
Zone 2 Link Max Distance	100 m maximum distance between DMA and LMA Amplifiers.
Configuration Settings (Rear Panel)	
Gain (Level)	Rotary potentiometer
Load Selection	DIP switch for 4 Ω, 8 Ω, 70.7 V, 100 V settings
PHD Load Test (Load Diagnostic Test) (Rear Panel)	
Activation Switch	Momentary - Pinhole Button
Diagnostic Indicators	Pass=Green, Fail=Red
Maintenance Port (Rear Panel)	
Hardware Firmware Update	USB 2.0
Output Terminals (Speaker - Rear Panel)	
Output Connectors -Type	Removable Euroblock, 7.62 mm pitch, locking
Output Connectors - # of Terminals	One (1) 2-position
Wire Size	28-10 Gauge (Class 2 Wire)
Current Rating	30 A RMS per Terminal

(CONTINUED ON NEXT PAGE)

LMA Series

LINKABLE MONO AMPLIFIERS

TECHNICAL DATA SHEET

AUDIO SPECIFICATIONS/PERFORMANCE

Electrical Specifications (General)			
Total Harmonic Distortion 1 kHz and 1 dB Below Rated Power	≤0.15%		
Signal-to-Noise Ratio (8 Ω)	>93 dBA Below Rated Output (A-Weighted),		
Frequency Response	20 Hz-20 kHz (+0/-1.5dB) in 2-, 4-, 8-Ohm, 25 V Modes; 50 Hz-20 KHz (+0/-1.5 dB) in 70.7 V, 100 V Modes		
Input Impedance Balanced (Nominal)	100 Ω Balanced Line-to-Line		
Input Sensitivity	0.775 V Balanced, 316 mV RCA		
Slew Rate	>18 V/µs		
Damping Factor (20 Hz to 400 Hz)	>250		
Input Gains & Input Sensitivity	**LMA101**	**LMA201**	**LMA401**
Balanced Input - Sensitivity	775 mv	775 mV	775 mV
Balanced Input Gain - 100 V Mode	42.2 dB	42.2 dB	42.2 dB
Balanced Input Gain - 70.7 V Mode	39.2 dB	39.2 dB	39.2 dB
Balanced Input Gain - 8 Ω Mode	31.2 dB	34.2 dB	37.2 dB
Balanced Input Gain - 4 Ω Mode	28.2 dB	31.2 dB	34.2 dB
RCA Summed Input - Sensitivity	316 mV	316 mV	316 mV
RCA Summed Gain - 100 V Mode	50 dB	50 dB	50 dB
RCA Summed Gain - 70.7 V Mode	47 dB	47 dB	47 dB
RCA Summed Gain - 8 Ω Mode	39 dB	42dB	45 dB
RCA Summed Gain - 4 Ω Mode	36 dB	32 dB	35 dB
Max Voltage Per Output - 100 V Setting	145 V		
Max Current per Output - 4 Ω Setting	LMA101= 7 A, LMA201=10 A, LMA401=14 A		
Protection	Soft Start, Input RF, DC, Short Circuit, Current Overload, Clip Limit, AC Mains Under-/Over-Voltage Shut-Off, Peak Current Limit, Over Temp		
Cooling			
Cooling System	Idle Mode is Convection for all models; Audio Signal Sense (Fan, Variable with Temperature - LMA201 & LMA401 only)		
Cooling Air Flow Direction	Rear-to-Front, no filters (LMA201 & LMA401 only)		
Fan Noise Idle @ 1 m	0 dBu		
Fan Noise Max @ 1 m	42 dBu		
Environmental			
Operating Temperature	10° F-104° F (-12° C-40° C)		
Relative Humidity	0-95%, noncondensing		
AC Power Requirements, All LMA Models			
Operating Voltage Auto Switch, 50/60Hz	100 V-132 V/208 V-264 V		
Minimum Power-Up Voltage	95 V		
Maximum Operating Voltage	264 V		
Mains Connector	IEC C14		
Power Cord (Ships With)	IEC C13 Plug/18 AWG 1.8 m Cord/NEMA 5-15 Plug		

(CONTINUED ON NEXT PAGE)

LMA Series

LINKABLE MONO AMPLIFIERS

TECHNICAL DATA SHEET

AUDIO SPECIFICATIONS/PERFORMANCE

Power Consumption & Current Draw @ 120 V AC Mains	LMA101		
	Amps	Watts	Btu/hr[4]
Standby Mode, Meets Energy Star Standards	0.02 A	0.4 W	1.4 Btu
Low Power Mode[9]	0.1 A	5.8 W	20 Btu
Idle Active	0.2 A	11.0 W	38 Btu
Average Power - 2 Ω[2, 8]	0.3 A	18.5 W	63 Btu
Average Power - 4 Ω[2]	0.3 A	18.9 W	64 Btu
Average Power - 8 Ω[2]	0.3A	19.6 W	67 Btu
Average Power - 25 V[2, 7]	0.3A	19.0 W	65 Btu
Average Power - 70.7 V[2]	0.3A	19.2 W	66 Btu
Average Power - 100 V[2]	0.3 A	20.2 W	69 Btu
Pink Noise Power - 2 Ω[3, 8]	1.1 A	82.3 W	281 Btu
Pink Noise Power - 4 Ω[3]	1.2 A	86.9 W	297 Btu
Pink Noise Power - 8 Ω[3]	1.2 A	86.8 W	296 Btu
Pink Noise Power - 25 V[3, 8]	1.1 A	83.5 W	285 Btu
Pink Noise Power -70.7 V[3]	1.1 A	83.4 W	285 Btu
Pink Noise Power - 100 V[3]	1.1 A	85.2 W	291 Btu
Burst Power - 2 Ω[4, 8]	0.5 A	46.2 W	158 Btu
Burst Power - 4 Ω[4]	0.6 A	47.9 W	163 Btu
Burst Power - 8 Ω[4]	0.6 A	48.0 W	164 Btu
Burst Power - 25 V[4, 7]	0.6 A	48.4 W	165 Btu
Burst Power - 70.7 V[4]	0.6 A	48.1 W	164 Btu
Burst Power - 100 V[4]	0.6 A	48.8 W	167 Btu
Music Power - 2 Ω[5, 8]	0.9 A	94.8 W	323 Btu
Music Power - 4 Ω[5]	1.0 A	95.5 W	326 Btu
Music Power 25 V[6, 8]	1.0 A	96.9 W	331 Btu
Music Power 70.7 V[5]	1.0 A	96.7 W	330 Btu
Music Power -100 V[5]	1.1 A	98.2 W	335 Btu
Sine Wave Power - 2 Ω[6, 8]	1.3 A	109.6 W	374 Btu
Sine Wave Power - 4 Ω[6]	1.5 A	117.7 W	402 Btu
Sine Wave Power - 8 Ω[6]	1.5 A	120.6 W	412 Btu
Sine Wave Power- 25 V[6, 7]	1.5 A	115.4 W	394 Btu
Sine Wave Power- 70.7 V[6]	1.4 A	114.8 W	392 Btu
Sine Wave Power - 100 V[6]	1.4 A	115.2 W	393 Btu

(CONTINUED ON NEXT PAGE)

LMA Series

LINKABLE MONO AMPLIFIERS

TECHNICAL DATA SHEET

AUDIO SPECIFICATIONS/PERFORMANCE

Power Consumption & Current Draw @ 120 V AC Mains	LMA201		
	Amps	Watts	Btu/hr[4]
Standby Mode, Meets Energy Star Standards	0.02 A	0.4 W	1.4 Btu
Low Power Mode[9]	0.1 A	5.9 W	20 Btu
Idle Active	0.2A	11.7 W	39 Btu
Average Power - 2 Ω[2, 8]	0.6 A	46.2 W	157 Btu
Average Power - 4 Ω[2]	0.8 A	57.8 W	197 Btu
Average Power - 8 Ω[2]	0.7 A	50.2 W	171 Btu
Average Power - 25 V[2,7]	0.6 A	44.6 W	152 Btu
Average Power - 70.7 V[2,7]	0.6 A	45.3 W	154 Btu
Average Power - 100 V[2]	0.6 A	47.8 W	163 Btu
Pink Noise Power - 2 Ω[3, 8]	2.1 A	156.5 W	532 Btu
Pink Noise Power - 4 Ω[3]	2.1 A	158.7 W	541 Btu
Pink Noise Power - 8 Ω[3]	2.0 A	149.3 W	509 Btu
Pink Noise Power - 25 V[3]	2.0 A	142.6 W	486 Btu
Pink Noise Power - 70.7 V[3]	2.0 A	145.5 W	496 Btu
Pink Noise Power - 100 V[3]	2.1 A	157.2 W	536 Btu
Burst Power - 2 Ω[4, 8]	1.0 A	69.4 W	236 Btu
Burst Power - 4 Ω[4]	1.2 A	82.2 W	260 Btu
Burst Power - 8 Ω[4]	1.1 A	78.3 W	267 Btu
Burst Power - 25 V[4]	1.1 A	7 0.8 W	241 Btu
Burst Power - 70.7 V[4]	1.1 A	72.3 W	246 Btu
Burst Power - 100 V[4]	1.1 A	70.5 W	240 Btu
Music Power - 2 Ω[5, 8]	2.0 A	156.2 W	532 Btu
Music Power - 4 Ω[5]	2.2 A	197 W	672 Btu
Music Power - 25 V[6, 8]	2.0 A	142.7 W	486 Btu
Music Power - 70.7 V[5]	2.0 A	140.8 W	480 Btu
Music Power -100 V[5]	2.1 A	147.9 W	504 Btu
Sine Wave Power - 2 Ω[6, 8]	3.1 A	237.6 W	808 Btu
Sine Wave Power - 4 Ω[6]	3.2 A	242.3 W	826 Btu
Sine Wave Power - 8Ω[6]	3.2 A	240.5 W	820 Btu
Sine Wave Power - 25 V[6, 7]	3.1 A	235.2 W	802 Btu
Sine Wave Power - 70.7 V[6]	2.9 A	220.4 W	752 Btu
Sine Wave Power - 100 V[6]	3.0 A	225.6 W	769 Btu

(CONTINUED ON NEXT PAGE)

LMA Series

LINKABLE MONO AMPLIFIERS

TECHNICAL DATA SHEET

AUDIO SPECIFICATIONS/PERFORMANCE

Power Consumption & Current Draw @ 120 V AC Mains	LMA401		
	Amps	Watts	Btu/hr[4]
Standby Mode, Meets Energy Star Standards	0.02 A	0.4 W	1.4 Btu
Low Power Mode[9]	0.1 A	4.8 W	16 Btu
Idle Active	0.2A	9.7 W	33 Btu
Average Power - 2 Ω[2, 8]	1.0 A	71.4 W	244 Btu
Average Power - 4 Ω[2]	1.2 A	78.1 W	266 Btu
Average Power - 8 Ω[2]	1.1 A	76.6 W	261 Btu
Average Power - 25 V[2,7]	1.0A	70.8 W	242 Btu
Average Power - 70.7 V[2,]	1.1 A	76.3 W	260 Btu
Average Power - 100 V[2]	1.1 A	75.2 W	257 Btu
Pink Noise Power - 2 Ω[3, 8]	3.0 A	238.8 W	815 Btu
Pink Noise Power - 4 Ω[3]	3.3 A	254.5 W	868 Btu
Pink Noise Power - 8 Ω[3]	3.2 A	242.6 W	828 Btu
Pink Noise Power - 25 V[3, 8]	3.2 A	246.2 W	840 Btu
Pink Noise Power - 70.7 V[3]	3.2 A	251.7 W	859 Btu
Pink Noise Power - 100 V[3]	3.2A	250.9W	856 Btu
Burst Power - 2 Ω[4, 8]	1.7A	151.3W	516 Btu
Burst Power - 4 Ω[4]	1.8 A	161.8W	552 Btu
Burst Power - 8 Ω[4]	1.7A	150.2W	513 Btu
Burst Power - 25 V[4, 7]	1.7 A	147.9 W	505 Btu
Burst Power - 70.7 V[4]	1.8 A	156.3 W	533 Btu
Burst Power - 100 V[4]	1.8 A	155.2 W	530 Btu
Music Power - 2 Ω[5, 8]	3.3 A	265.6 W	906 Btu
Music Power - 4 Ω[5]	3.5 A	276.4 W	943 Btu
Music Power - 25 V[6, 8]	3.3 A	263.8 W	900 Btu
Music Power - 70.7 V[5]	3.4 A	270.2 W	922 Btu
Music Power -100 V[5]	3.4 A	271.5W	926 Btu
Sine Wave Power - 2 Ω[6, 8]	5.0 A	403.5 W	1377 Btu
Sine Wave Power - 4 Ω[6]	5.3 A	436.0 W	1488 Btu
Sine Wave Power - 8Ω[6]	5.2 A	420.3 W	1434 Btu
Sine Wave Power - 25 V[6, 7]	5.1 A	415.6 W	1418 Btu
Sine Wave Power - 70.7 V[6]	5.1 A	417.2 W	1424 Btu
Sine Wave Power - 100 V[6]	5.1 A	412.8W	1409 Btu

Notes:

1. Power Level - Test is defined as follows: A 1 kHz sine wave signal burst of 20 cycles (20 mS) at 1% THD+N, followed by 480 cycles of a 1 kHz sine wave at 10% of the max power. Other power measurements available upon request. All power tests were conducted at 120 V.
2. Average power draw is defined as pink noise input signal applied to achieve 1/4 of the 4 Ω or 70.7 V power rating.
3. Maximum pink noise power current draw is defined as pink noise applied as the signal source to the amplifier to achieve 100% of the 4 Ω or 70.7 V power rating. Using pink noise for testing amplifiers is a strenuous test that provides a consistent signal across the entire audio spectrum. Pink noise also provides a 6 db crest factor signal that injects a balance of RMS and peak signals providing realistic amp draw data for audio applications.
4. Maximum burst power draw is defined as follows: A 1 kHz sine wave signal burst of 20 cycles (40 mS) at 100% of the 4 Ω or 70.7 V power rating, followed by 480 cycles of a 1 kHz sine wave at 10% of the maximum power repeated. **Note:** The amp draw/watt data is the peak power consumed and not steady-state amplifier draw. This complies with the UL 62368-1 standard and testing for maximum peak amp draw for a 120 v, 15 A AC mains.

(CONTINUED ON NEXT PAGE)

LMA Series

LINKABLE MONO AMPLIFIERS

TECHNICAL DATA SHEET

AUDIO SPECIFICATIONS/PERFORMANCE

5. Music power draw is defined as dynamic input signal applied to achieve the maximum rated power into a 4 Ω or 70.7 V load. This test also represents realistic current draw data for audio applications. The current draw data is the maximum peak amp/watt and not steady-state amp draw. This complies with the UL 62368-1 standard and testing for maximum peak amp draw for a 120 V, 15 A AC mains. **Note:** When specifying this amplifier for power consumption, AtlasIED recommends using the Max Music Power Amps/Watt rating data.
6. Sine wave power draw is defined as 1 kHz input signal applied to achieve the maximum power output before clip into a 4 Ω or 70.7 V load. This data should be used as a reference of the maximum current the amplifier can draw. Steady-state sine wave signals over 3 seconds should not be applied and may trip a 15 A, 120 V AC Mains breaker.
7. Twenty-five volt systems using 4 Ω Load Selection Settings.
8. Two-ohm loads using 4 Ω Load Selection Settings.

Package Contents			
LMA Model	**LMA101**	**LMA201**	**LMA401**
Power Cord: IEC C13 Plug/18 AWG 1.8 m cord/NEMA 5-15 plug	Qty. 1	Qty. 1	Qty. 1
Input Connector: 3-position, 3.5 mm pitch	Qty. 1	Qty. 1	Qty 2
GIP Connector: 3-postion, 3.5 mm pitch (black)	Qty. 1	Qty. 1	Qty. 1
Remote Level Connector: 5-position, 3.5 mm pitch	Qty. 1	Qty. 1	Qty. 1
Speaker Connector: 2-position, 7.62 mm pitch	Qty. 1	Qty. 1	Qty. 1
Rack Kit for Single & Dual mounting	Qty. 1	Qty. 1	Qty. 1
Installation Sheet with QR Code	Qty. 1	Qty. 1	Qty. 1

Dimensions	**LMA101/LMA201/LMA401**
Rack Mount Requirements	1 RU, 8.5 " or 19" with Rack Kit extension ear
Dimensions - Unit, All LMA Models	8.75" W × 1.75" H × 11.23" D (222 mm × 44 mm × 285 mm)
Dimensions - Shipping, All LMA Models	15.35" W × 5.04" H × 12" D (390 mm × 306 mm × 128 mm)

Weight	**Unit**	**Shipping**
LMA101	4.85 lbs. (2.2 kg)	8.95 lbs (4.06 kg)
LMA201	5.3 lbs (2.4 kg)	9.4 lbs (4.26 kg)
LMA401	5.75 lbs (2.61 kg)	9.85 lbs (4.47 kg)

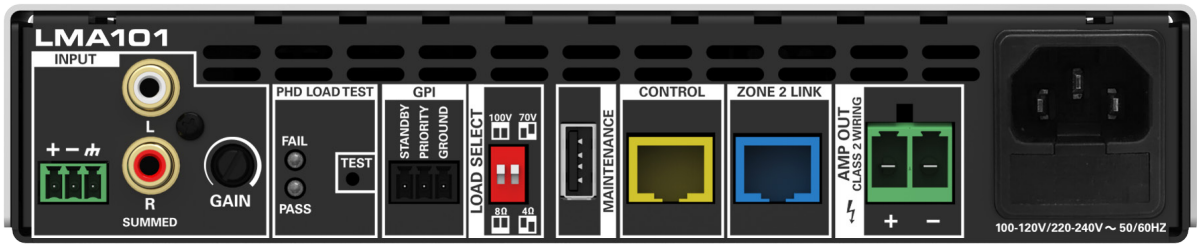
Agency Approvals	
North America Agency	TÜV
Testing Standard North America	62368-1
FCC Class A (Conducted & Radiated Emissions)	Part 15 B of the FCC Rules
CE	Yes (Includes RoHS & WEEE)

LMA Series

LINKABLE MONO AMPLIFIERS

TECHNICAL DATA SHEET

PRODUCT IMAGES

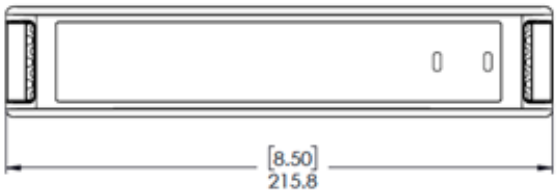


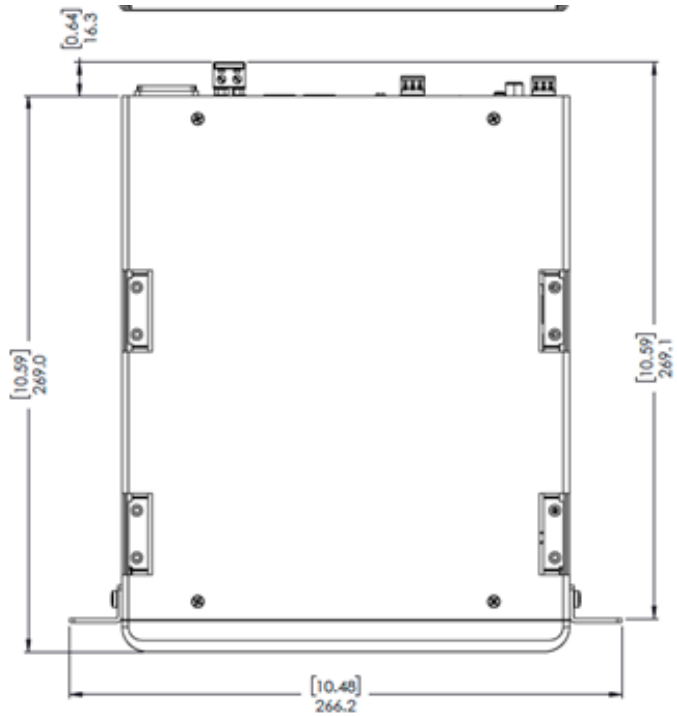
LMA Series

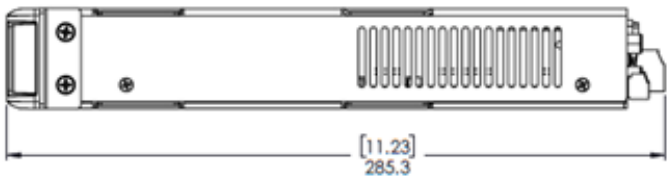
LINKABLE MONO AMPLIFIERS

TECHNICAL DATA SHEET

DIMENSIONAL DRAWINGS







LMA Series

LINKABLE MONO AMPLIFIERS

TECHNICAL DATA SHEET

ACCESSORY

DMA-V - Single Zone Volume Control

LMA Series

LINKABLE MONO AMPLIFIERS

TECHNICAL DATA SHEET

ARCHITECT AND ENGINEER SPECS

The AtlasIED LMA Linked Mono Amplifier Series shall be is a one-channel, multi-impedance amplifier designed for use as a standalone zone amplifier or as a secondary zone amplifier when linked with an AtlasIED DMA Series amplifier. The LMA Series shall be available in three models: LMA101 (100 W), LMA201 (200 W), and LMA401 (400 W). Each unit offers consistent features and size. The LMA Series shall be ready to use out of the box in 70.7 V mode, with no configuration or network connectivity required.

The LMA series shall be configurable for both commercial 25 V / 70.7 V / 100 V distributed systems and professional applications requiring amplification for low impedance loads such as 2, 4, or 8 ohms. Configuration of the LMA shall be performed via rear panel switches.

The LMA series amplifier shall provide the ability to accurately power steer the amount of power needed per output channel regardless of the speaker load impedance.

The performance specifications shall match or exceed the following: Load Configurations - Each channel load selection shall be configured individually at 2 Ω, 4 Ω, 8 Ω, 25 V, 70.7 V and 100V; Input Sensitivity: 1 V Balanced, 0 dBU; Input Impedance: Balanced 20K Ohms; Max Input Level: +22 dBU, THD 1% at rated output; Frequency Response: -3dB 20 Hz @ 20 kHz, Low Z; Signal-to-Noise Ratio: -93dB Below Rated Output, A-Weighted; Crosstalk >70 dB @1kHz. Protection circuits =Thermal, Short, Signal Limiter; Standby mode 4 W, 1.36 Btu; Max Power: 70.7 V (default mode = 417 W, 1424 Btu).

The LMA Series shall be designed to integrate seamlessly with a DMA amplifier, serving as the second amplifier in a two-zone audio system. Connection requires a standard Ethernet cable. With Zone 2 Link ports, audio and data are gain-matched for consistent performance between amplifiers. The LMA can be installed up to 100 meters from the DMA amplifier, offering flexible placement options.

The LMA Series Shall be equipped with a balanced line and electronically summed RCA inputs, rear panel detented gain control, remote level control, and GPI control ports for low power standby mode or priority override. The LMA Series shall incorporate an automatic speaker system test known as Push Here Diagnostic (PHD).

The LMA power amplifier shall amplifier shall feature an AC Mains status RGB LED indicator for the following operating modes: Active Mode, Low Power Mode, Standby Mode, and AC power line warning status for low and high AC line conditions. Additionally, the front panel shall have individual channel indicators that consist of three-color status RGB LED indicators for Signal/Limit/Protect/Mute.

The amplifier shall include convection cooling with whisper fan assist for extreme conditions. If the unit is not being used or is operatin in low power mode, the fan shall remain off until the unit is in heavy use. The amplifier's airflow direction shall be from front to rear and requires no air filters.

The LMA Series amplifiers shall feature a three-pin, rear-mounted GPI Control Port for activating Standby mode and Priority mute mode, to be activated by external contact closure relay. Additionally, each amplifier channel shall have a separate Remote Level control port. The Remote Level Control Ports shall provide +10 V and GND connections, as well as a return voltage port for each channel. The Remote Level return voltage shall come from a 10 kΩ linear taper pot or remote-control system with a variable 0-10 V output.

The LMA amplifier shall be ready to use out of the box, configured as a two channel, 70.7 V mode, requiring no configuration or network connectivity. Additionally, the LMA amplifiers shall come with a rack mount kit for mounting one or two AtlasIED half-rack devices.

The LMA amplifier shall be a 1 RU half-rack device with the following dimensions: 8.50 inches (216 mm) wide, 1.75 inches (44 mm) high, and 11.23 inches (350 mm) deep. The LMA101 shall weigh 4.85 lbs. (2.2 kg). The LMA201 shall weigh 5.3 lbs. (2.4 kg). The LMA401 shall weigh 5.75 lbs. (2.61 kg).

The amplifier shall be an AtlasIED LMA101, LMA102, or LMA401.