

Network **CONNECTSERIES**

USER'S MANUAL

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Document Revision Date: October 3, 2024	



We've been in the deep end of the pro audio industry for a long time now. What we saw was an appetite for something new. So, we started LEA Professional – a new pro audio technology company with the freedom, agility, knowledge and passion to create not only a great audio amplifier, but also simple systems that focus on supporting you, our customer.

At the end of the day, we are just passionate about audio technology and we want to share our passion with as many people as possible. Because we know that great audio technology, is at the heart of great experiences. So, we are dedicated to providing perfect sound reinforcement through all of our products.

We're deeply proud of our Connect Series amplifiers and we can't wait for you to get working with them. We truly believe that we've produced the best looking, best performing product with the best technology at the best price for you.

Although we've strived to create simple systems and proactive technologies, we are dedicated to continually supporting you with anything you need. Please don't hesitate to contact us anytime for more information, support, or just to talk audio.

As far as we're concerned, we're riding this wave together. Welcome aboard!

Get more - join our pro audio community!



Subscribe: leaprofessional.com



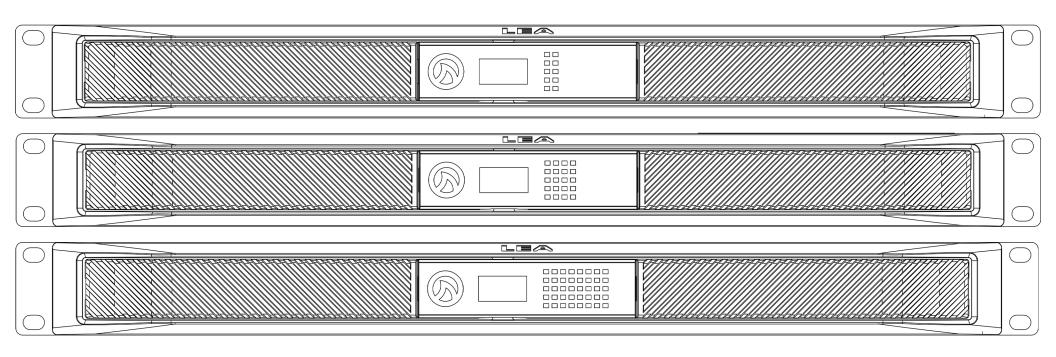
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INTRODUCING THE WORLD'S FIRST IOT-ENABLED PROFESSIONAL AMPLIFIERS





Introducing an Internet of Things (IOT) enabled, professional-grade amplifier family – the Network Connect Series. Perfectly suited for small to medium scale installations, these two, four, and eight channel amps feature direct HiZ (70V or 100V) or LoZ selectable by channel. With three ways to connect, you can engage the built in WiFi access point, connect to the venue's WiFi, and use the FAST 10/100MB Ethernet to connect to any local area network via Cat5 or Cat6 cable.

Then there's the Cloud...The Network Connect Series is the first professional amplifier family to feature Cloud connectivity. Harness the power of the Cloud for remote control, monitoring, notifications and more from any of your personal devices – no software download needed! Just connect your amp to a network and start commanding your systems. Register for your free LEA Cloud account at leaprofessional.cloud

The power of the Cloud and our Web UI will set the installer up to be able to create a recurring revenue source by adding monitoring and preventative system maintenance to their service contracts. Also included is an Analog Devices 96kHZ DSP with up to 48dB/Oct filters, 8 parametric EQ's, speaker protection limiting, and many more features controlled by a web-based UI.

The Network Connect Series also features analog inputs and external I/O control for remote on/off and fault monitoring.

MAIN FEATURES

- 1. Web Browser-based UI works on any device with no software to download
- 2. Direct LoZ and HiZ (70V or 100V) selectable per channel
- 3. **Proprietary Smart Power Bridge** double the output power of any single channel without sacrificing other channels on the amplifier
- 4. **3 Ways to Connect to the amplifier** 1.) Built in WiFi Access Point 2.) Connects to existing WiFi network 3.) Local Area Network Ethernet connection
- 5. 3rd Party API support for most of the industry leading system processors on the market
- 6. **96kHz Analog Devices DSP** with Input Routing, multiple 48dB/Oct crossover filters, 8 Parametric EQ filters, user configurable speaker limiters, and real time load monitoring
- 7. Universal Switch Mode Power Supply with PFC. Operation from 100VAC 240VAC +/-10%
- 8. Analog fully routable inputs with backup capabilities
- 9. External I/O Port for Remote On/Off and fault monitoring
- 10. Highly Efficient Class D Output Stage for low AC Current draw

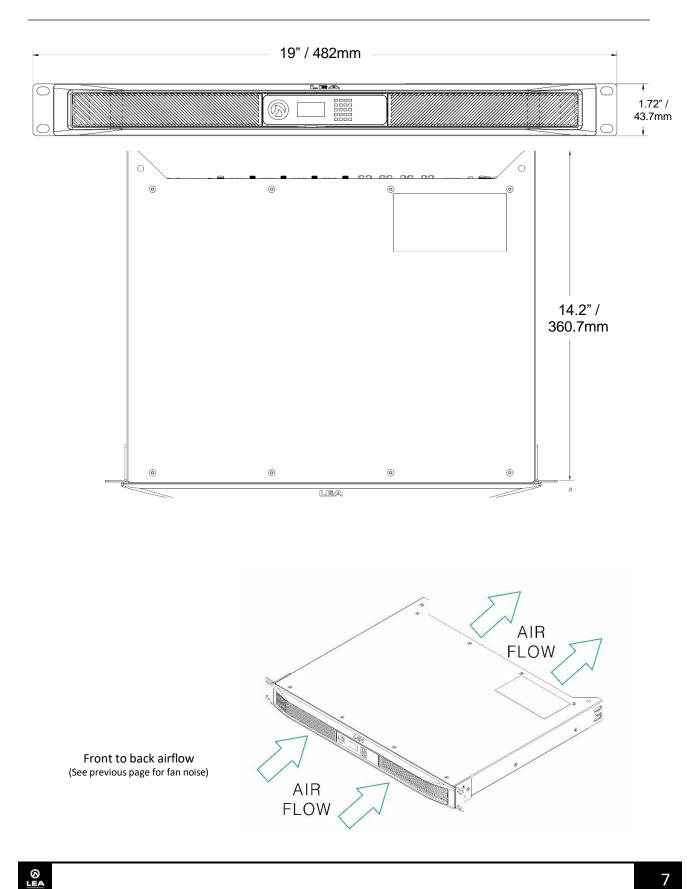
SPECIFICATIONS | ProductData

	0 ann (- 1 0 - 1 - 0 -		
	Connect Series 88	8 x 80 WRMS @ 4Ω, 8Ω, 70V, 100V (40W at 2Ω)	
	Connect Series 168	8 x 160 WRMS @ 4Ω, 8Ω, 70V, 100V (80W at 2Ω)	
	Connect Series 84	4 x 80 WRMS @ 4Ω, 8Ω, 70V, 100V (40W at 2Ω)	
	Connect Series 164	4 x 160 WRMS @ 4Ω, 8Ω, 70V, 100V (80W at 2Ω)	
Output	Connect Series 354	4 x 350 WRMS @ 4Ω, 8Ω, 70V, 100V (175W at 2Ω)	
(20Hz to 20kHz)	Connect Series 704	4 x 700 WRMS @ 4Ω, 8Ω, 70V, 100V (350W at 2Ω)	
	Connect Series 352	2 x 350 WRMS @ 4Ω, 8Ω, 70V, 100V (175W at 2Ω)	
	Connect Series 702	2 x 700 WRMS @ 4Ω, 8Ω, 70V, 100V (350W at 2Ω)	
	Connect Series 1504	4 x 1500 WRMS @ 2Ω, 4Ω, 8Ω, 70V, 100V	
	Inputs	Analog: Balanced Inputs with user selectable 26 dB and 34 dB input sensitivity (2CH = 2 inputs, 4CH=4 inputs, 8CH = 8 inputs)	
	THD+N	0.1% (20Hz to 20kHz)	
	Frequency Response	+/- 0.5 dB @ 4Ω, 8Ω, 70V, 100V, -2.5dB @ 20kHz at 2Ω	
	Signal to Noise	105dB (20Hz to 20kHz referenced to 8Ω)	
	Level		
Audio Spec	Crosstalk	70dB (20Hz to 20kHz)	
	I/O Latency	1 ms DSP latency under any condition	
	Load Impedance	LowZ down to 2 ohms, 70V direct, and 100V Direct per channel	
	Amplifier Output Classification	Class D with Proprietary Smart Power Bridge Technology allowing bridged output functionality without sacrificing an amplifier channel	
	DC Offset	+/- 3mV	
	DSP Architecture	Analog Devices Sigma 96kHz DSP Processor with 32-bit Core with Sample Rate Converters	
	Input Matrix	Routable matrix; any input to any output with primary and secondary input priority	
	Crossovers	Up to 48 dB/Octave IIR Filters (Linkwitz Riley, Butterworth)	
	Parametric EQ	8 Band Parametric EQ per channel	
DSP	Output Delay	100ms per channel	
	Output Protection User Adjustable	DC, VHF, and AC Mains Protection, Overtemp and Current Limiter, fan fault detection	
	Limiting	Peak Voltage and RMS Voltage	
	Load Monitoring	Realtime Load Monitoring and Pilot Tone Detection from Internal or External Sources	
	Network	WiFi or 100MB Ethernet with PoE or Built in WiFi Access Point (IEEE 802.11 b/g/n WPA,	
	Connectivity	WAP2, WEP)	
	User Interface	Web Browser User Interface, 3rd Party API control, or CLOUD control	
Control,	Supported Operating Systems	MAC, iOS, PC, Android	
Monitoring, Network	Event Reporting	User Downloadable and Viewable Event and Fault log - POE allows for enhanced error monitoring	
	External I/O	External I/O In: Toggles Remote On/Off	
		External I/O Out: Indicates Amplifier Health	
	Cloud IoT	Cloud based IoT functionality	
	AC Mains	100VAC - 240VAC +/- 10% 50Hz or 60Hz	
Operation	Temperature Power Supply	Storage: -20°C to 90° C - operating temperature 0°C to 35°C (and or 45°C) Universal Switch Mode Power Supply with Power Factor Correction (No PFC in Connect Series 84, Connect Series 164, Connect Series 88, & Connect Series 168)	
	Safety Approvals	UL, CSA,CE, ETL, FCC, CCC, KETI, NOM, ROHS, PSE	
	· · ·	Product: 14.25" x 19" x 1U (362mm x 482mm x 1U	
	Dimensions (L x W	Shipping: 20" x 22.75" x 3.75" (508mm x 578mm x 95.25mm)	
Physical Spec	x H)	CS 1504 Product: 16.5" x 19" x 24" CS 1504 Shipping: 22.50" x 21.50" x 8"	
	Weight	Connect Series 352 & Connect Series 702: 10lbs / 3.4kg Shipping: 17.4lbs / 7.9kg Connect Series 354 & Connect Series 704: 14lbs / 4kg Shipping: 18.7lbs / 8.5kg Connect Series 84 & Connect Series 164: 12.10lbs / 5.49kg Shipping: 16.40lbs / 7.44kg Connect Series 88 & Connect Series 168: 13.40lbs / 6.08kg Shipping: 17.98lbs / 8.07kg Connect Series 1504: 28lbs / 12.7kg Shipping: 30lbs / 13.6kg	
		Front to Rear Variable Fan Speed Cooling	
	Cooling	Fan Noise at idle is 50dB @ 1m Fan Noise at 50% is 57dB @ 1m Fan	
	cooming	Noise at full speed is 63dB @ 1m	
	Connectors	Analog Input: 3 pin Amphenol Anytek, Output: 2 pin Amphenol Anytek, External IO: 3 pin Amphenol Anytek, Power in: IEC, Ethernet RJ45 In for Contro***Note: Connect Series 84, Connect Series 164, Connect Series 88, & Connect Series 168 do not have potentiometers on the rear panel	

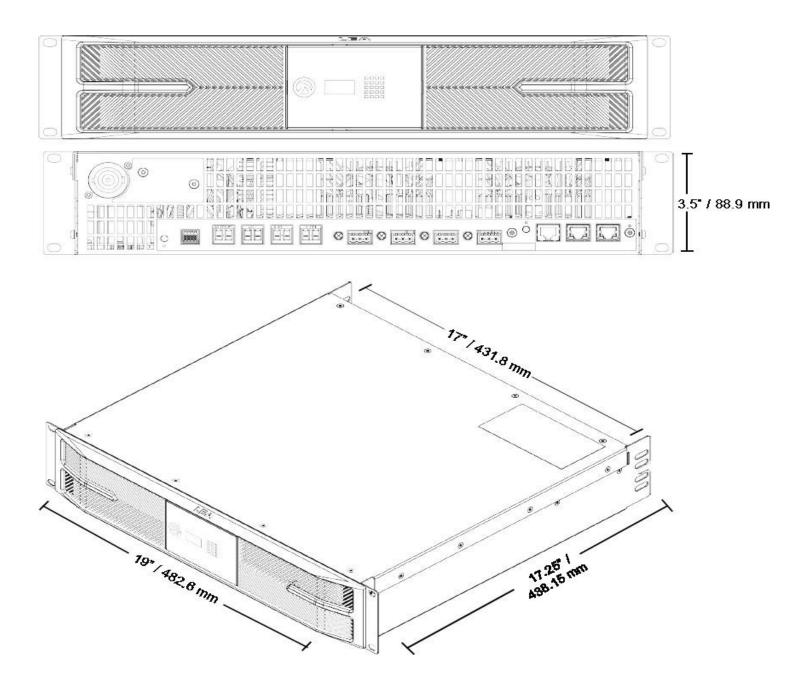
SPECIFICATIONS | ProductData CONTINUED

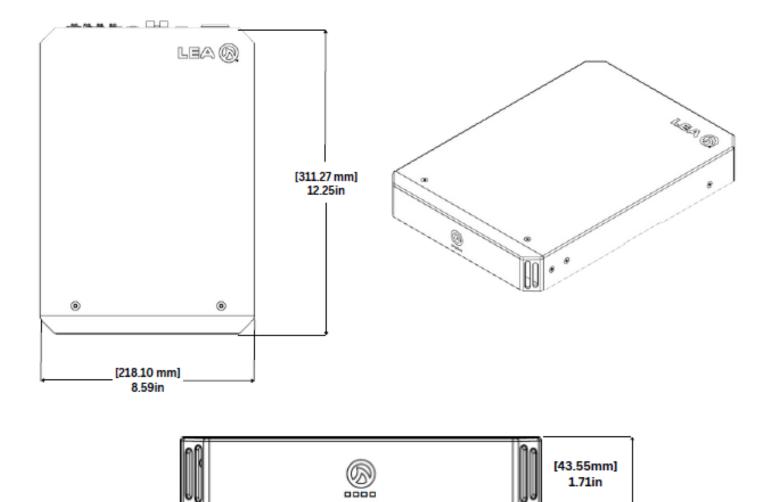
	Connect 34	4 x 30 WRMS @ 4Ω, 8Ω, 70V, 100V (15W at 2Ω)
Output Power (20Hz to 20kHz)	Connect 64	4 x 60 WRMS @ 4Ω, 8Ω, 70V, 100V (30W at 2Ω)
	Connect 124	4 x 120 WRMS @ 4Ω, 8Ω, 70V, 100V (60W at 2Ω)
	Inputs	Analog: 4 Balanced analog inputs with user-selectable 26dB, 34dB, and mic level input sensitivity 4 Unbalanced RCA inputs with user-selectable 26dB and 34dB input sensitivity ***Note – Balanced and Unbalanced (RCA) inputs share the same analog input channel
	THD+N	0.1% (20Hz to 20kHz)
	Frequency Response	20hz to 20kHZ +/- 0.5 dB @ 4Ω, 8Ω, 70V, 100V, -2.5dB @ 20kHz at 2Ω
Audio Spec	Signal to Noise Level	102dB (20Hz to 20kHz referenced to 8Ω)
-	Crosstalk	70dB (20Hz to 20kHz)
	I/O Latency	1 ms DSP latency under any condition
-	Load Impedance	Lo-Z down to 2 ohms, 70V direct, and 100V Direct per channel
-	Amplifier Output Classification	Class D with Proprietary Smart Power Bridge Technology allowing bridged output functionality without sacrificing an amplifier channel
	DC Offset	+/- 3mV
	DSP Architecture	Analog Devices Sigma 96kHz DSP Processor with 32-bit Core with Sample Rate Converters
	Input Matrix	Routable matrix; any input to any output with primary and secondary input priority
	Crossovers	Up to 48 dB/Octave IIR Filters (Linkwitz Riley and Butterworth)
DSP	Parametric EQ	8 Band Parametric EQ per channel
	Output Delay	100ms per channel
-	Output Protection	DC, VHF, and AC Mains Protection, Overtemp and Current Limiter, fan fault detection
_	User Adjustable Limiting	Peak Voltage and RMS Voltage
	Load Monitoring	Realtime Load Monitoring and Pilot Tone Detection from Internal or External Sources
-	Network Connectivity	Wi-Fi or 100MB Ethernet with PoE or Built-in Wi-Fi Access Point (IEEE 802.11 b/g/n WPA, WPA2, WEP)
	User Interface	Web Browser User Interface, 3rd Party API control, Cloud Control, or SharkWare
	Supported Operating Systems	MAC, iOS, PC, Android
-	Event Reporting	User Downloadable and Viewable Event and Fault log - POE allows for enhanced error monitoring
	External I/O	External I/O In: Toggles Remote On/Off External I/O Out: Indicates Amplifier Health 4 general-purpose Input and Output pins for general input Triggering and output statuses – Coming soon
-	Cloud IoT	AWS Cloud-based IoT functionality
	AC Mains	100VAC - 240VAC +/- 15% 50Hz or 60Hz
-	Temperature	Storage: -20°C to 90° C - Operating: 0°C to 60° C
Operation	Power Supply	Universal Switch Mode Power Supply
-	Safety Approvals	UL, CSA, CE, ETL, FCC, CCC, KETI, NOM, ROHS, PSE
	Dimensions (L x W x H)	Product: 11.82" x 8.58" x 1.71" (300.11 mm x 218mm x 43.5mm) Shipping: 18" x 11" x 2.75" (457.2mm x 300mm x 69.85mm)
Physical Spec	Weight	34: 7lbs / 3.1kg Shipping: Coming soon 64: 7lbs / 3.1kg Shipping: Coming soon 124: 7lbs / 3.1kg Shipping: Coming soon
	Cooling	Front to Rear Variable Fan Speed Cooling Fan Noise at idle is 50dB @1m Fan Noise at 50% is 57dB @1m Fan Noise at full speed is 63dB @1m
	Connectors	Analog Input: 3 pin Amphenol Anytek, Output: 2 pin Amphenol Anytek, External IO: 8 pin Amphenol Anytek, Power in: IEC, Ethernet RJ45 In for Control, and RCA input

SPECIFICATIONS | ProductData CONTINUED



SPECIFICATIONS | ProductData CONTINUED





LEA LIMITED WARRANTY | U.S.Only

LEA LLC, 635 S. Lafayette Blvd. Building 113, Suite 109, South Bend, Indiana, 46601 U.S.A. warrants for products purchased through an authorized dealer for a period of 3 (three) years from the date of invoice to the dealer (the "warranty period") that the new LEA LLC product is free of defects in materials and workmanship. Warranty may be extended to a total of 6 (six) years if the product is registered within the first year of original invoice to dealer. Warranty is non-transferrable and is valid within the United States of America. For information on Warranty outside of the U.S.A, please contact your local distributor which can be found here: www.leaprofessional.com/partner-map

Excluded Items: This Warranty does not cover any product which has been damaged because of any misuse, mishandling, accident, or negligence. This LEA LLC Warranty is not valid if the product serial number has been defaced, altered, or removed. LEA LLC liability shall be limited to the actual purchase price of any defective unit or units of LEA LLC equipment to which a claim is made, and shall in no event include the Customers' installation costs, design costs, lost profits or goodwill, or any other direct, indirect, special, incidental or consequential damages.

LEA LLC Obligations: LEA LLC will remedy any defective product (except as excluded), by advanced replacement with new or equivalent factory refurbished product during the initial three-year warranty period. LEA LLC will provide ground shipment for the replacement product free of charge. LEA LLC will issue a return shipment call tag for the defective unit when RMA is requested.

<u>Making a Warranty Claim</u>: A claim for Warranty must be submitted through the original selling dealer. The dealer must notify LEA LLC of the need for Warranty replacement via LEA LLC's online partner portal. Once Warranty is verified, an RMA number will be provided along with a return shipment call tag. All components must be returned in LEA LLC factory packaging with the RMA number clearly visible on the return shipping label. If a defect product is not returned within 14 days of RMA issuance, the dealer will be billed the full dealer price of the replacement unit. Should a customer wish to have a product repaired and returned instead of replaced, customer should contract LEA Customer Care team for

return instructions.

<u>Alterations:</u> No person has the authority to extend, amend, or modify this LEA LLC Warranty. Replacement product provided under the terms of this LEA LLC Warranty shall carry only the unexpired portion of Warranty of the originally purchased product.

Design Changes: LEA LLC reserves the right to change the design of any product from time to time without notice and with no obligation to make corresponding changes in products previously manufactured.

Country where Purchased: LEA LLC Warranty is only available in the country of the products original purchase.

SAFETY INSTRUCTIONS | SafeOperation

1. Read these instructions before installing or operating this unit.

2. Keep these instructions somewhere for your reference.

3. Heed all warnings provided in these instructions.

4. Follow all instructions found in this document.

5. Keep this unit away from water at all times.

6. Use only a dry cloth to clean the unit.

7. Do not block any ventilation openings. Follow the installation instructions from this manual for proper ventilation.

8. Never install this unit near a heat source such as furnace, radiator, heat registers, ovens, or other anything else that produces heat.

9. Do not alter the safety purpose of the polarized or grounding-type plug. If the provided plug does not fit into your outlet, consult an electrician.

10. Keep the power cord away from areas at risk of being walked on, tripped over, or pinched.

11. Only use attachments/accessories specified within this document.

12. Unplug this device during lightning storms or when unused for long periods of time.

13. Do not attempt to service this unit. All servicing must be performed by a qualified LEA service technician. To find a qualified LEA technician, contact your local LEA dealer/distributor.

14. To disconnect the device from the mains, use the mains plug.

 15. WARNING: DO NOT EXPOSE THIS APPARATUS TO RAIN OR MOISTURE. DOING SO CAN RESULT IN AN ELECTRAL SHOCK.
 16. ENSURE THAT NO LIQUID-FILLED OBJECTS, SUCH AS DRINKING WATER, ARE PLACED ON THE EQUIPMENT. KEEP EQUIPMENT AWAY FROM DRIPPING OR SPASHING.
 17. THE MAINS PLUG OF THE POWER SUPPLY

CORD SHALL REMAIN READILY OPERABLE.

MAGNETIC FIELD



CAUTION! All high-gain devices such as preamplifiers should be installed away from the device. Due to the high-power density of this amplifier, it has a strong magnetic field which can induce hum into unshielded devices that are located nearby. The field is strongest just above and below the unit. If an equipment rack is used, we recommend installing the amplifier(s) in the bottom of the rack and the preamplifier or other sensitive equipment at the top.

BE AWARE OF THESE SYMBOLS:

The lightning bolt alert is used to inform the user to the risk of potential electric shock.



The exclamation point alert is used to inform the user of important operating or maintenance instructions



DO NOT REMOVE TOP OR BOTTOM COVERS ON THIS DEVICE. NO USER SERVICEABLE PARTS INSIDE. CONTACT QUALIFIED SERVICE PERSONNEL FOR ALL SERVICING MATTERS.

FCC COMPLIANCE NOTICE

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

CAUTION: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

· Reorient or relocate the receiving antenna.

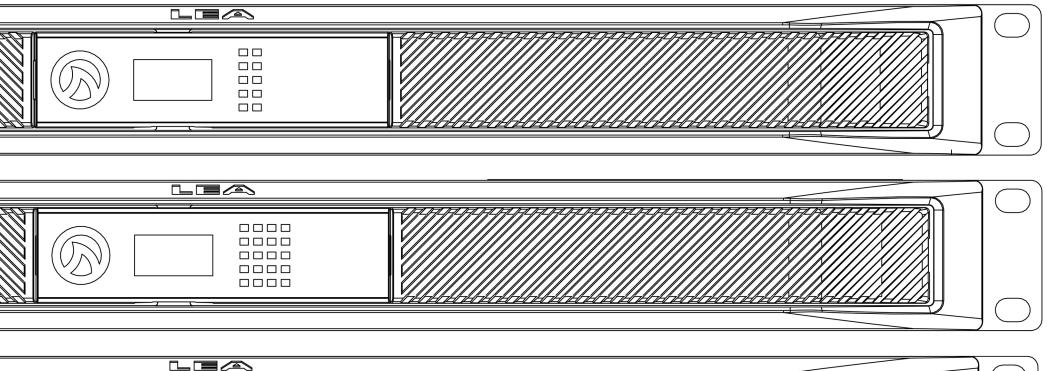
• Increase the separation between the equipment and receiver.

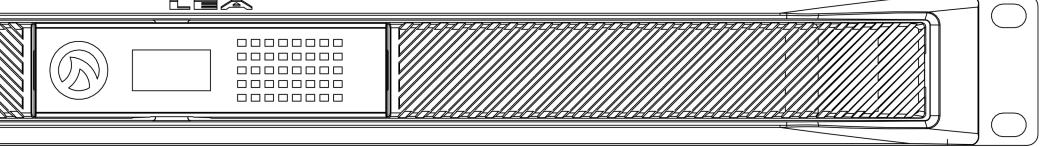
• Connect the equipment into an outlet on a circuit different from that to which the

receiver is connected.

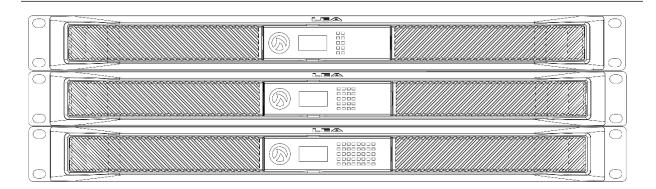
Consult the dealer or an experienced radio/TV technician for help







OUT OF THE BOX | FrontPanel



The Amp: Front Pane



Front Panel LCD

Shows IP Address, Amp Name, SSID when in WiFi Access Point Mode, and MAC Address



Easy Pop out Grille

Removable front grilles with washable foam filters



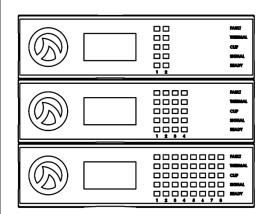
LEA Shark Fin

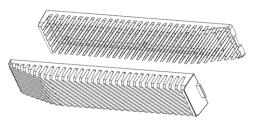
Illuminates green with AC plugged in & blue with AC plugged in and when powered on.



Channel Status Indicator

- Ochannel Fault
- O Channel Thermal
- Channel Clip
- Signal Presence
- O Channel Ready





Indicator Definitions:

Channel Fault – Indicates the channel has shut down due to protection circuits. Check to make sure the output on that channel is not shorted. If all channels indicate fault, the power supply has gone into protection. No audio will be passed until the fault is resolved.

Channel Thermal – Indicates channel is at or close to over temp. When dim, the channel will start to lightly limit the output. When bright, the channel is heavily limiting the output.

Channel Clip – A red light indicates the channel is at the onset of audible clip on the output. Excessive clipping can damage the speaker connected to the amplifier. If the LED is Amber, that indicates the channel is limiting. **Signal Presence** – This indicator illuminates when there is -40db of input signal present on that assigned output channel.

Channel Ready – Indicates the channel is ready to pass audio. If this indicator is off, the channel may be in standby mode or the amplifier DSP is booting up.

Connect Series Half-Rack:



The Amp: Font Panel



Green Fin

AC plugged in unit powered off Via Remote On/Off GPIO pin



Channel Status Indicators

- Ochannel Fault
- Channel Thermal
- Channel Clip
- Signal Presence
- Channel Ready



Blue Fin

AC plugged in unit powered on

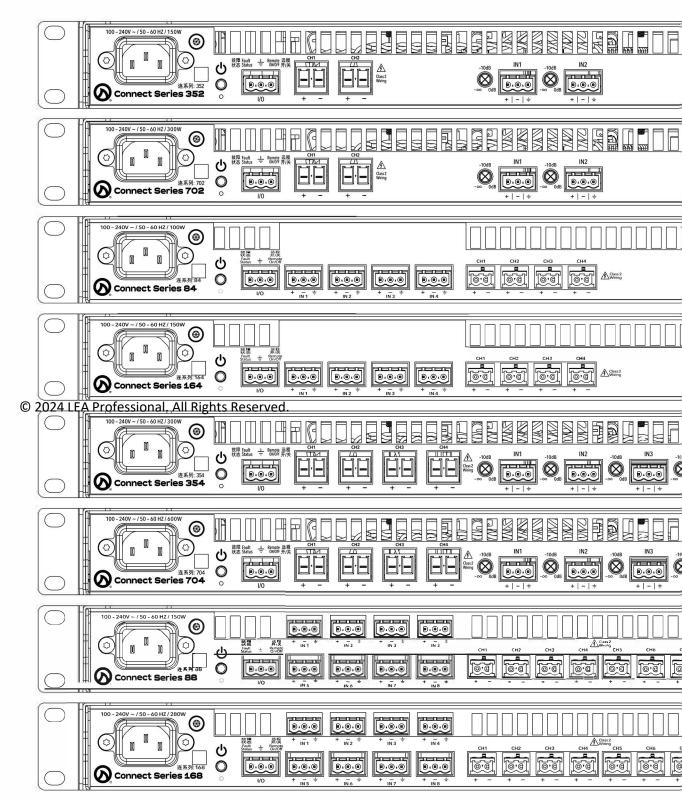
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Channel Fault – Indicates the channel has shut down due to protection circuits. Check to make sure the output on that channel is not shorted. If all channels indicate fault, the power supply has gone into protection. No audio will be passed until the fault is resolved.

Channel Thermal – Indicates channel is at or close to over temp. When dim, the channel will start to lightly limit the output. When bright, the channel is heavily limiting the output.

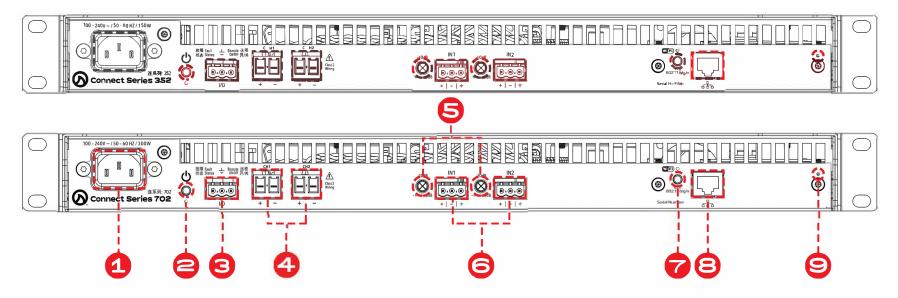
Channel Clip – A red light indicates the channel is at the onset of audible clip on the output. Excessive clipping can damage the speaker connected to the amplifier. If the LED is Amber, that indicates the channel is limiting. **Signal Presence** – This indicator illuminates when there is -40db of input signal present on that assigned output channel.

Channel Ready – Indicates the channel is ready to pass audio. If this indicator is off, the channel may be in standby mode or the amplifier DSP is booting up.





2 CHANNEL MODELS



1. IEC Type Inlet: For detachable IEC connector. 100VAC-240VAC 50Hz or 60Hz

2. Power Button: ON/OFF Button Status indicated by LED below. (Green when AC, Blue when powered on)

3. External I/O Port: w/ remote ON/OFF & Fault Status

4. Channel Output: CH1, CH2 LowZ, 70V, or 100V selectable by channel

5. Channel Attenuators: CH1, CH2, CH3, & CH4 detented attenuation pots

6. Analog Balanced Inputs: CH1, CH2 (26 dB and 34 dB input sensitivity)

7. Built-in Wi-Fi Access Point (WAP): Enable/Disable button

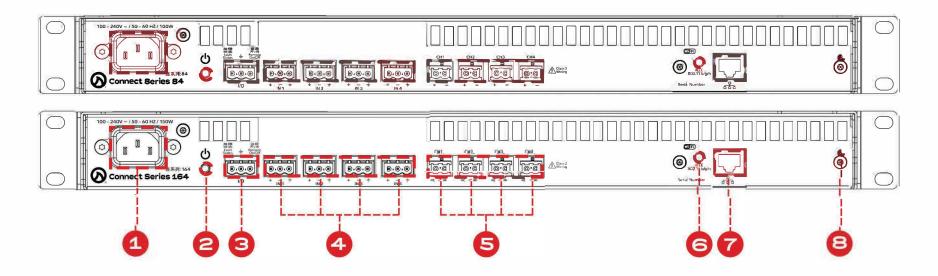
8. Fast 10/100MB Ethernet: Cat5 or Cat6 input for control & monitoring

9. Factory Reset: To restore settings to factory default





4 CHANNEL MODELS



1. IEC Type Inlet: For detachable IEC connector. 100VAC-240VAC 50Hz or 60Hz

2. Power Button: ON/OFF Button Status indicated by LED below. (Green when AC, Blue when powered on)

3. External I/O Port: w/ remote ON/OFF & Fault Status

4. Analog Balanced Inputs: CH1, CH2, CH3, & CH4 (26 dB and 34 dB input sensitivity)

5. Channel Output: CH1, CH2, CH3, & CH4 LowZ, 70V, or 100V selectable by channel

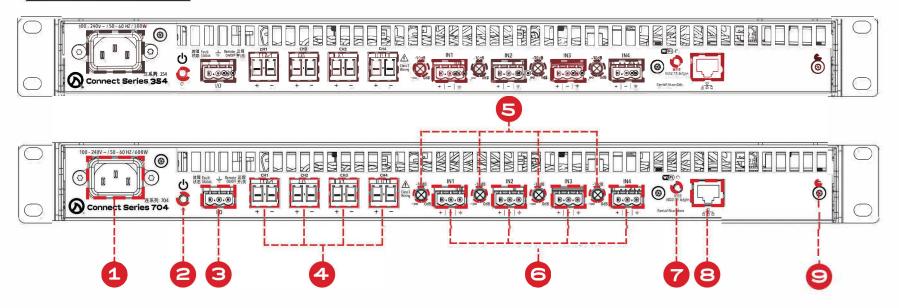
6. Built-in Wi-Fi Access Point (WAP): Enable/Disable button

7. Fast 10/100MB Ethernet: Cat5 or Cat6 input for control & monitoring

8. Factory Reset: To restore settings to factory default



4 CHANNEL MODELS CONTINUED



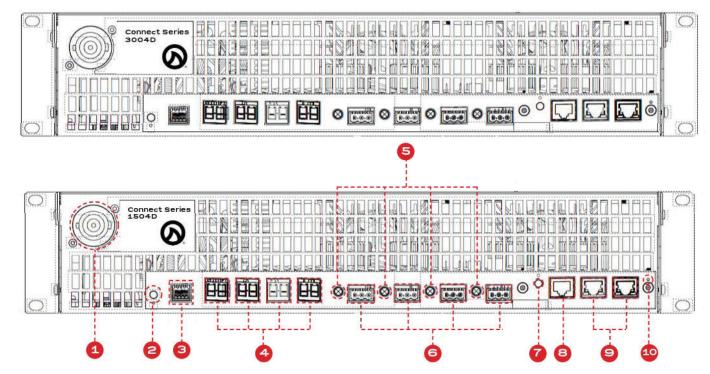
- **1. IEC Type Inlet:** For detachable IEC connector. 100VAC-240VAC 50Hz or 60Hz
- **2. Power Button:** ON/OFF Button Status indicated by LED below. (Green when AC, Blue when powered on)
- 3. External I/O Port: w/ remote ON/OFF & Fault Status
- **4. Channel Output:** CH1, CH2, CH3, CH4 LowZ, 70V, or 100V selectable by channel
- **5. Channel Attenuators:** CH1, CH2, CH3, & CH4 detented attenuation pots

- **6. Analog Balanced Inputs:** CH1, CH2, CH3, CH4 (26 dB and 34 dB input sensitivity)
- 7. Built-in Wi-Fi Access Point (WAP): Enable/Disable button
- 8. Fast 10/100MB Ethernet: Cat5 or Cat6 input for control & monitoring
- 9. Factory Reset: To restore settings to factory default



OUT OF THE BOX | BackPanel

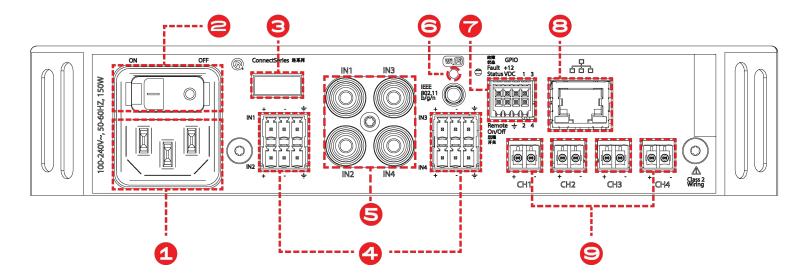
4 CHANNEL MODELS CONTINUED



- 1. IEC Type Inlet: For detachable IEC connector. 100VAC-240VAC 50Hz or 60Hz
- 2. Power Button: ON/OFF Button Status indicated by LED below. (Green when AC, Blue when powered on)
- 3. External I/O Port: w/ remote ON/OFF Fault Status
- 4. Channel Output: CH1, CH2, CH3, CH4 LowZ, 70V or 100V selectable by channel
- 5. Channel Attenuartors: Ch1, CH2, CH3, & CH4 detented atteuation pots
- 6. Analogue Balanced Inputs: CH1, CH2, CH3, CH4 (26 dB and 34dB input sensitivity)
- 7. Built-in Wi-Fi Access Point (WAP): Enable/Disable button
- 8. Fast 10/100MB Ethernet: Cat5 or Cat6 input for control & monitoring
- 9. Dante Inputs: Primary & Secondary
- 10. Factory Reset: To restore settings to factory default

OUT OF THE BOX | BackPanel

4 CHANNEL MODELS CONTINUED



1. IEC Type Inlet: For detachable IEC connector. 100VAC-240VAC 50Hz or 60Hz

2. Power Button: ON/OFF Switch | O=OFF | = ON

3. LCD Display: Networking Information

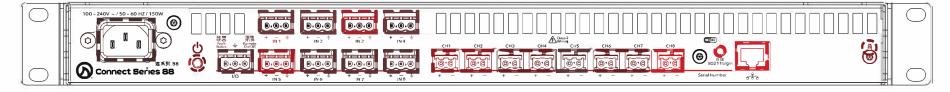
4. Analog Balanced Inputs: 3-position input receptacles switchable between mic and line level input

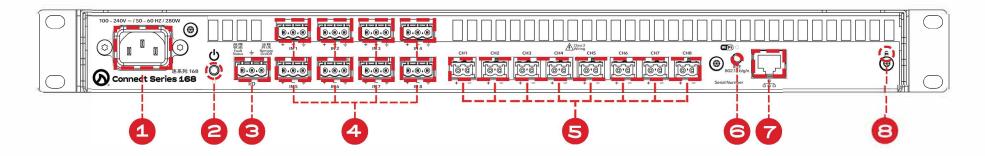
5. RCA Unbalanced Inputs: RCA inputs are in parallel with the Analog balanced inputs

6. Wi-Fi Access Point: Enable/Disable button with status LED | AP=Blue, Wi-Fi=Green
7. GPIO Port: With remote ON/OFF & Fault Status

8. Fast 10/100MB Ethernet: Cat5 or Cat6 input for control,monitoring, & PoE
9. Channel Outputs: 2-position output receptacles for up to 4 channels

8 CHANNEL MODELS





1. IEC Type Inlet: For detachable IEC connector. 100VAC-240VAC 50Hz or 60Hz

2. Power Button: ON/OFF Button Status indicated by LED below. (Green when AC, Blue when powered on)

3. External I/O Port: w/ remote ON/OFF & Fault Status

4. Analog Balanced Inputs: CH1, CH2, CH3, CH4, CH5, CH6, CH7, CH8 (26 dB and 34 dB input sensitivity)

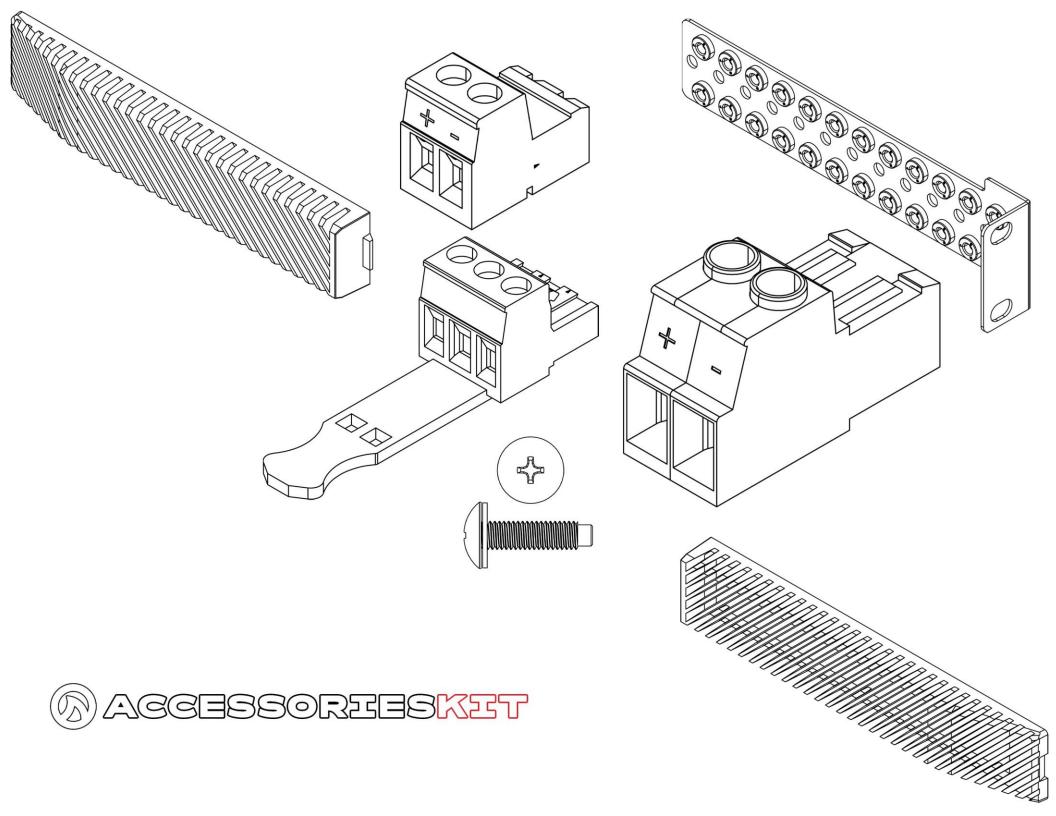
5. Channel Output: CH1, CH2, CH3, CH4, CH5, CH6, CH7, CH8 LowZ, 70V, or 100V selectable by channel

6. Built-in Wi-Fi Access Point (WAP): Enable/Disable button

7. Fast 10/100MB Ethernet: Cat5 or Cat6 input for control & monitoring

8. Factory Reset: To restore settings to factory default





IN THE BOX | AccessoriesKit

Each Connect Series amplifier comes with an accessories kit included in the box. This kit provides you with all the essential tools to properly setup your Connect Series amplifier for the first time. Reference your kit checklist below with the part numbers on the following page to ensure you have all items included in your kit. If you misplace an item or cannot find an item from the checklist below, please contact us at:

Authorized U.S. Dealers, U.S. and International Distributors can access parts and service requests from the online sales portal at www.leaprofessional.shop

If you are not an Authorized Dealer or Distributor, please contact the U.S. Dealer, U.S. or International Distributor in your country where you purchased the product and they can assist you – <u>www.leaprofessional.com/partner-map</u>

2 CHANNEL KIT | Connect Series 352/ Connect Series 702

- IEC Power Cord
- Quick Start Guide
- Record of Excellence
 Welcome Card
- Weicom
 Sticker
- O (2) Removable/Washable front panel Foam Filters
- (3) 3 position 5.08mm Amphenol Anytek Input Connectors | (2) for analog input, (1) for External I/O Port
- (2) 2 position 7.62mm Amphenol Anytek Output Connectors
- (4) Rack Screws (standard)
- (2) Rear Rack Supports

4 CHANNEL KIT | Connect Series 84/ Connect Series 164

- IEC Power Cord
- Quick Start Guide
- Record of Excellence
- Welcome Card
- Sticker
- (2) Removable/Washable front panel Foam Filters
- (5) 3 position 5.08mm Amphenol Anytek Input Connectors | (4) for analog input, (1) for External I/O Port
- (4) 2 position 5.08mm Amphenol Anytek Output Connectors
- (4) Rack Screws (standard)
- (2) Rear Rack Supports

4 CHANNEL KIT | Connect Series 354/ Connect Series 704

- IEC Power Cord
- Quick Start Guide
- Record of Excellence
- Welcome Card
- Sticker
- (2) Removable/Washable front panel Foam Filters
- (5) 3-position 5.08mm Amphenol Anytek Input Connectors | (4) for analog input, (1) for External I/O Port
- (4) 2 position 7.62mm Amphenol Anytek Output Connectors
- (4) Rack Screws (standard)
- (2) Rear Rack Support

4 CHANNEL KIT | Connect Series 1504/ Connect Series 3004

- Power Cord neutric 32A PowerCon L630P
- Quick Start Guide
- Record of ExcellenceWelcome Card
- WelcorSticker
- (2) Removable/Washable front panel Foam Filters
- (5) 3-position 5.08mm Amphenol Anytek Input Connectors | (4) for analog input, (1) for External I/O Port
- (4) 2 position 7.62mm Amphenol Anytek Output Connectors
- (4) Rack Screws (standard)
- (2) Rear Rack Support

IN THE BOX AccessoriesKit CONTINUED

4 CHANNEL KIT | Connect Series 34/ Connect Series 64/ Connect Series 124

- IEC Power Cord ଡ
- ଡ **Quick Start Guide**
- ଡ Welcome Card ଡ Sticker
- ୭
- Phillips Screws (2) ø T10 Torx Screws (4)
- ଡ Phillips Screws (4)

- Detachable Rack Ears (2) ø
- ଡ 1/2 Rack Blank Plate
- Ø Wall/Behind TV Mount
- Ø Side by Side Joining Plate
- ø Adhesive Rubber Feet (4)
- ଡ 2 Position Amphenol Anytek Output
- Ø Connector 3 Position Amphenol Anytek Input
- ଭ Connector 8 pin I/O Input Connector

8 CHANNEL KIT | Connect Series 88/ Connect Series 168

- IEC Power Cord ଡ
- ø Quick Start Guide
- ø Record of Excellence
- ø Welcome Card
- ø Sticker
- (2) Removable/Washable front panel Foam Filters ଡ
- ଭ (2) Rear Rack Supports

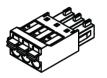
ø (9) 3 position 5.08mm Amphenol Anytek Input Connectors | (8) for analog input, (1) for External I/O Port

- (8) 2 position 5.08mm Amphenol Anytek Output Connectors -Ø 80W/160W
- ര (4) Rack Screws (Standard)

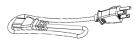
Connect series Half-Rack Part Numbers:



2-Position Amphenol Anytek Output Connector Qty 1 (per output channel) LEA Part #: CPP10008-1



3-Position Amphenol Anytek Input Connector Qty 1 (per output channel) LEA Part #: CSP10006-1



Standard IEC Power Cord Qty 1 LEA Part #: MOS10013-1



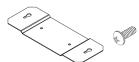
8-Pin I/O Input Connector Qty 1 LEA Part #: CSP10004-1



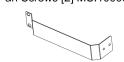
Detachable Rack Ears Qty 2 LEA Part #: MFM1002-1



1/2 Rack Blank Plate Qty 1 LEA Part #: MFM10034-1 Flat Screws [4] MSI10002-1



Wall/Behind TV Mount Qty 1 LEA Part #: MFM10035-1 Pan Screws [2] MSI10009-1

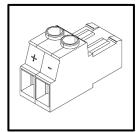


19" Rack Mount Hardware Qty 1 LEA Part #: MFM10033-1



Feet Qty 4 LEA Part #: MOS10029-1 Pan Screws [4] MSI10011-1

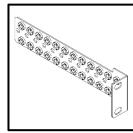
Connect Series Part Numbers:



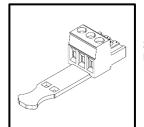
2-Position Amphenol Anytek Output Connector LEA Part #: CPP10001-1 350/700W Only*



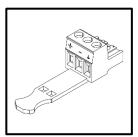
2-Position Amphenol Anytek Output Connector LEA Part #: CPP10006-1 80/160W Only*



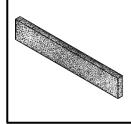
Rear Rack Support LEA Part #: MFM10003-1



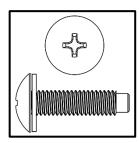
3-Position Amphenol Anytek Input Connector LEA Part #: CSP10006-1



3-Position Amphenol Anytek Input Connector LEA Part #: CSP10001-1



Foam Air Filter LEA Part #: MDF10001-1

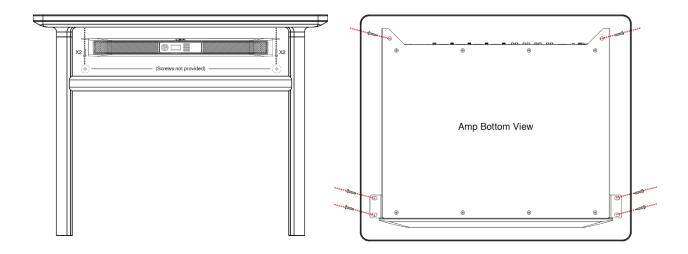


10-32 Rack Screw LEA Part #: MSI10007-1

GETTING STARTED | OutOf The Box

Proper Installation

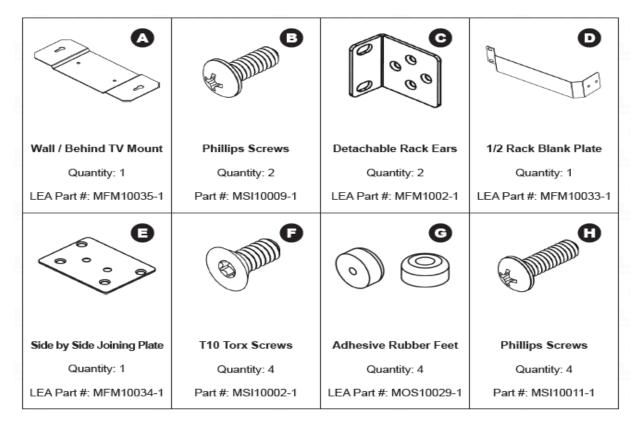
- 1. The LEA Connect Series is a standard 1U x 19" rack mountable product.
- 2. Out of the box, the rack ears will mount directly into a standard rack
- 3. If you wish to mount this under a table or to the wall, the rack ears can be rotated 90 degrees and gives you the ability to mount the unit to a fixed surface.
- 4. It is highly recommended you also take advantage of the rear rack ears to properly secure the unit.



Powering On

- 1. You will notice there are no buttons on the front panel. This is intentional and prevents unwanted adjustments.
- 2. To power on the unit, on the back, you will notice an icon that looks like this: Ů. Once you press this button, you will notice a LED below the button illuminate Blue. The amplifier has now turned on and has begun its boot sequence.
- 3. To turn the unit off, press the \mathbf{U} icon. You will notice the blue LED will change to green. The amplifier is now in a powered off state.
 - a. You can also simply remove AC power to the unit to power it down as well. The LED will turn off completely. When you power the unit back on, it will return to the state it was in when you powered it off.
- 4. Factory default settings allow analog 1 to pass to channel 1 output, analog 2 to pass to channel 2 output and so on.

Connect Series Half-Rack Installation Accessories:



Connect Series Half-Rack Installation Options:

- 1. Free Standing with Feet
- 2. Side by Side Rack Mounting
- 3. Single Unit Rack Mount
- 4. Under Table or Wall Mount with Rack Ears
- 5. Behind TV, Wall, or Under Table Mount

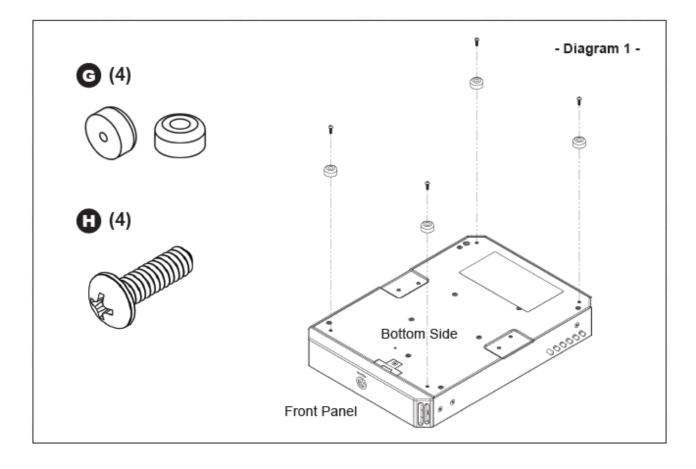
GETTING STARTED | OutOf The Box CONTINUED

Free Standing with Feet:

If not installed in an equipment rack, Connect Series Half-Rack amplifiers can be set up freestanding on any flat surface. For stability, four adhesive rubber feet and four Phillips screws are included.

Instructions:

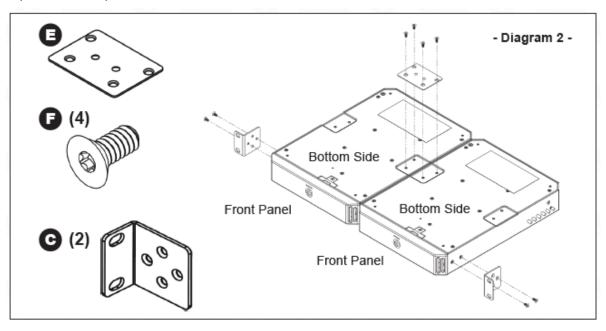
- 1. Place the Phillips screws (4) into each rubber foot (4).
- 2. Taking a Phillips screwdriver, tighten each rubber foot into place.



Side by Side Rack Mounting:

The Connect Series Half-Rack amplifiers come with a bridge plate connector, enabling you to combine two amplifiers into a full rack-width unit. For easy installation, use the joining plate, the four T10 Torx screws included in the accessory pack, the four T10 Torx screws already in the unit, and the two rack ears from the accessory pack.

- 1. If the amplifier has its flat bottom rubber feet installed, remove them. Position two amplifiers upside down and next to each other as shown below.
- 2. Use the joining plate connector on the beveled edge *(see diagram)* and the four provided T10 Torx screws to connect the two units.
- 3. Use the joining plate connector on the beveled edge *(see diagram)* and the four provided T10 Torx screws to connect the two units.
- 4. Insert the amplifier into the rack and align the holes in the rack ears with the holes on the rack.
- 5. Ensure the amplifier is securely mounted to the rack using the appropriate screws *(not included).*

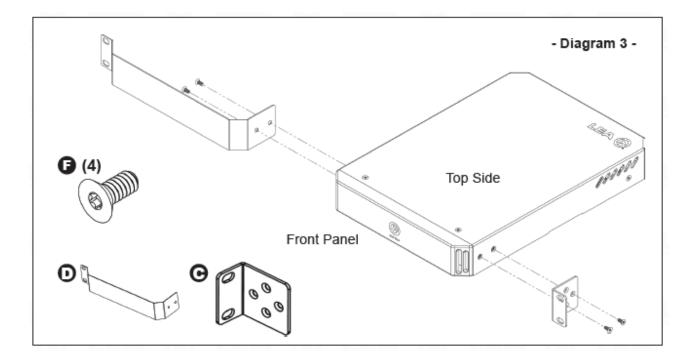


GETTING STARTED | OutOf The Box CONTINUED

Single Unit Rack Mount:

The Connect Series Half-Rack ships with two rack ears and a 1/2 rack blank plate to form a full rack-width unit when only one amplifier is being used.

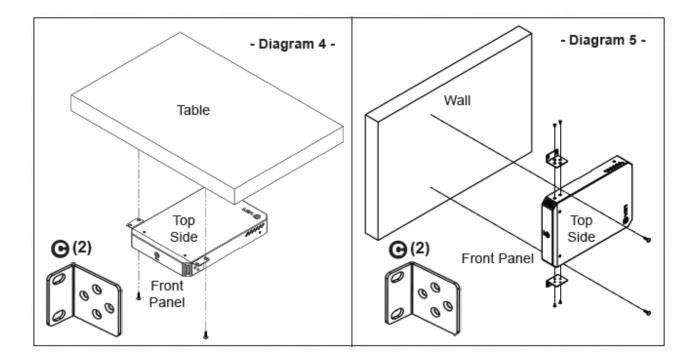
- 1. If the amplifier has its flat bottom rubber feet installed, remove them.
- 2. Attach rack ear (1) and ½ rack blank plate (1) to the sides with the four provided T10 Torx screws.
- 3. Insert the amplifier into the rack and align the holes in the rack ears with the holes on the rack.
- 4. Ensure the amplifier is securely mounted to the rack using the appropriate screws *(not included).*



Under Table or Wall Mount with Rack Ears:

The Connect Series Half-Rack is designed for versatile installation, whether under-table or wall mounting. It ships with two rack ears that are easily rotatable, allowing users to configure the setup in multiple ways. For under-table or wall mounting, simply rotate the rack ears so that the installation screw holes face upwards.

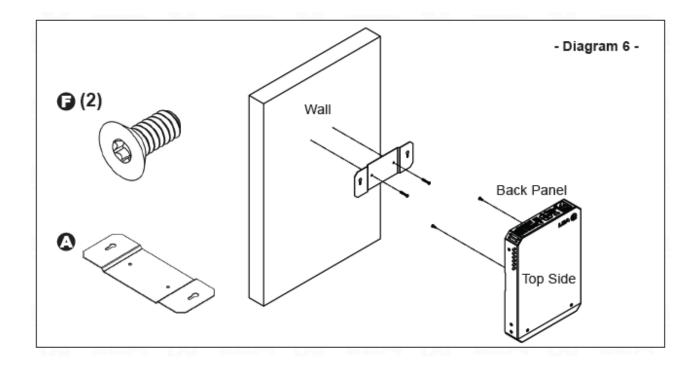
- 1. If the amplifier has its flat bottom rubber feet installed, remove them.
- 2. Attach the two Rack ears with four T10 Torx screws (screws provided on unit) with rack holes facing up (See Diagram).
- 3. Ensure the amplifier is securely mounted to the desired location using the appropriate screws (not included).



Behind TV, Wall, or Under Table Mount:

The Connect Series Half-Rack includes two additional T10 Torx screws and an under-table/TV mount. Our concealed wall mount, measuring 75 mm across, is specifically designed to meet VESA standards.

- 1. If the amplifier has its flat bottom rubber feet installed, remove them.
- 2. Attach the TV, Wall, or under-table mount to the back of the amplifier with two T10 Torx screws.
- 3. Ensure the amplifier is securely mounted to the rack using the appropriate screws *(not included).*



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NETWORKING AND WEB UI | Control&Monitoring

There are 3 ways to communicate with the amplifier for control and monitoring:

- 1. A Built in Wi-Fi Access Point
- 2. Standard Ethernet 10/100 FAST Ethernet Connection via the RJ45 Connection.
- 3. You can connect the amplifier to the Venue's Wi-Fi network.

1. Built-in Wi-Fi Access Point (WAP)

The built in Wi-Fi access point allows for a point-to-point connection. This means you will only be able to communicate to one Connect Series amplifier at a time.

Using WAP

- 1. Press Wi-Fi button on rear panel to activate Wi-Fi Access Point
- 2. Once enabled, the front LCD now displays an SSID and IP address
- 3. Connect your device (phone, tablet, computer) to the amplifier's Wi-Fi network
- 4. Enter the IP address from the front panel LCD into your device's web browser
- 5. Control and monitor via the built-in web browser-based UI

NOTE: If a Cat5 or Cat6 cable is plugged in, WAP mode is disabled. Remove the Cat cable when entering AP mode. Dante connections can stay plugged in.

2. 10/100MB FAST Ethernet

In 10/100MB FAST Ethernet Mode, you will be able to see multiple amplifiers in the Web Browser Based UI.

Using 10/100MB FAST Ethernet

- 1. Connect via wired network using Cat5 or Cat6 cable
- 2. Once connected, the front LCD now displays an IP address
- 3. Connect your device (phone, tablet, computer) to the Local Area Network and enter the IP address from the front panel LCD into your device's web browser
- 4. Control and monitor via the built-in web browser-based UI

NOTE: Out of the box, the factory default settings require the amplifier to be connected to a DHCP switch.

3. Local Area Wi-Fi Network

Connecting multiple amplifiers to the venue's Wi-Fi network allow you to see multiple amplifiers in the Web Browser Based UI.

Using Local Area Wi-Fi

- 1. Connect to the Web App UI (same as WAP instructions above) then navigate to networking menu
- 2. Check the "Wi-Fi Enabled" box
- 3. Type in existing Wi-Fi network's SSID that you would like to connect to (case sensitive)
- 4. Enter password if necessary, to see amp's IP address, subnet mask, and gateway info confirming your status and click "Save"
- 5. Connect your device (phone, tablet, computer) to the existing Wi-Fi network you have selected for the amp
- 6. Control and monitor via the built-in web browser-based UI

NOTE: only one connection method is available for remote connection. If Wi-Fi is enabled, the ethernet connection is shutdown. Vice versa is also true.

WEB APP UI | GettingStarted

CONNECTSERIES CONTROL & MONITORING

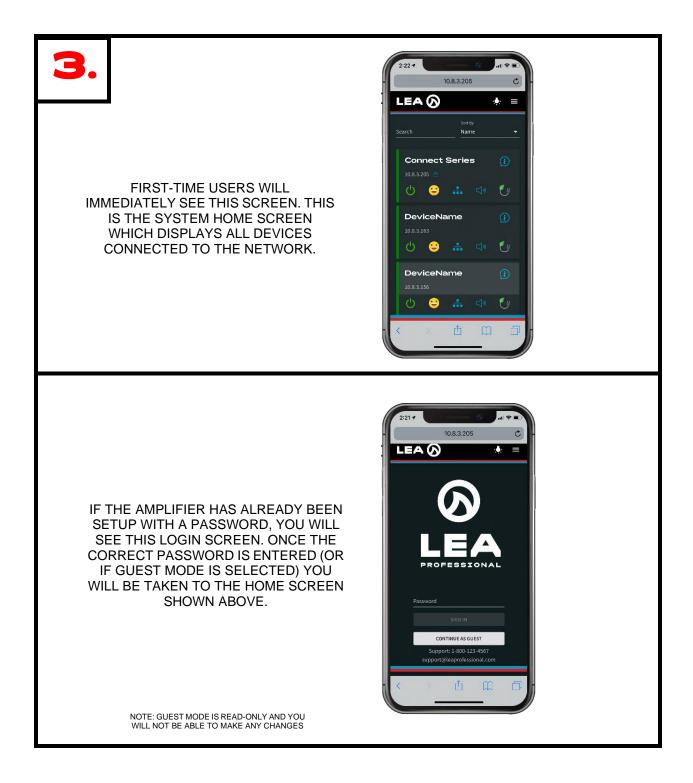
With our Web App UI, you are no more than three clicks away from anything.

First, from the broadest view, you get a clear status check of every amplifier connected to the network. Therefore, you can see which amps are online/offline, whether they are powered on or in a standby mode, a quick performance status to report any errors or faults and even more.

In addition, with one click, you can view the status of every channel on any given amp to quickly monitor channel performance. Such as your output meter with a clip indicator, status indicators such as Ready, Limiting, Thermal, and Fault, as well as a quick attenuation level view and channel mute button.

So then, with a second click, you can select an individual channel for control and monitoring. Lastly, with a third click you are ready to start viewing and adjusting channel settings such as Input Settings, Signal Generator, Crossover, Equalizer, Limiter, and Load Monitoring.

1.	FIND THE IP ADDRESS DISPLAYED ON THE FRONT PANEL SCREEN.				
				<u> </u>	
					5
		Amp#	Professional [#123 [\mp-123] 3.205 [
2.	ENTER IP ADD DEVICE'S WEB BAR.			CONTINUE TO	NEXT PAGE
New Tab		×	+		
\leftrightarrow \rightarrow	C 3 10.8.3.	205			



WEB APP UI | SymbolGuide

ONLINE/OFFLINE - 2 STATES

RED BAR Indicates the amp is offline

GREEN BAR Indicates the amp is online









muted

State 3 Some channels muted, some channels not muted.





State 1 – The amplifier is in a completely powered up state.

State 2 – The amplifier is in auto-standby mode.



State 3 – The amplifier is in remote on/off mode and has POE active.

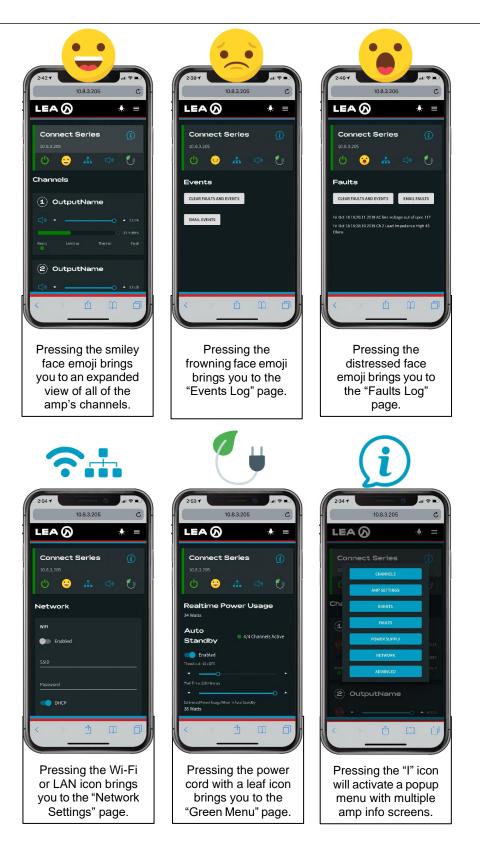


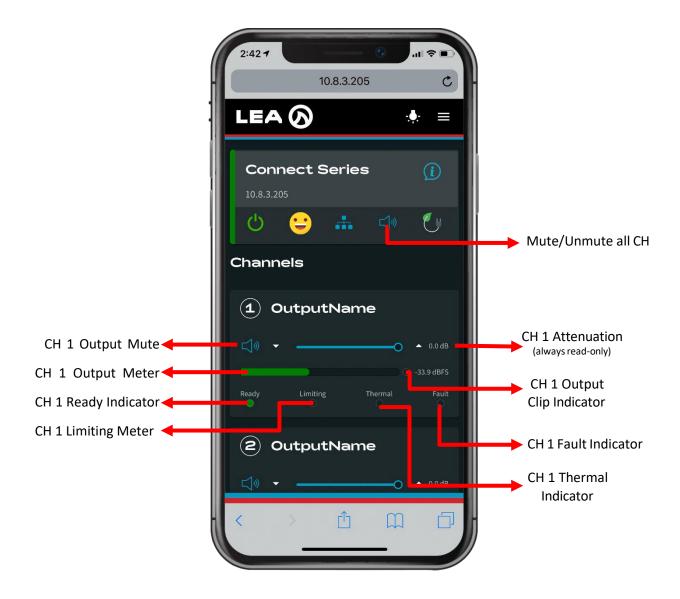


State 1 Amp connected to Wi-Fi Access point of venue's Wi-Fi State 2 Amp connected via rear panel ethernet connection.

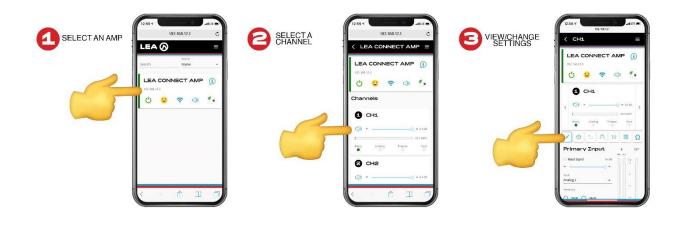


WEB APP UI | ShortcutButtons





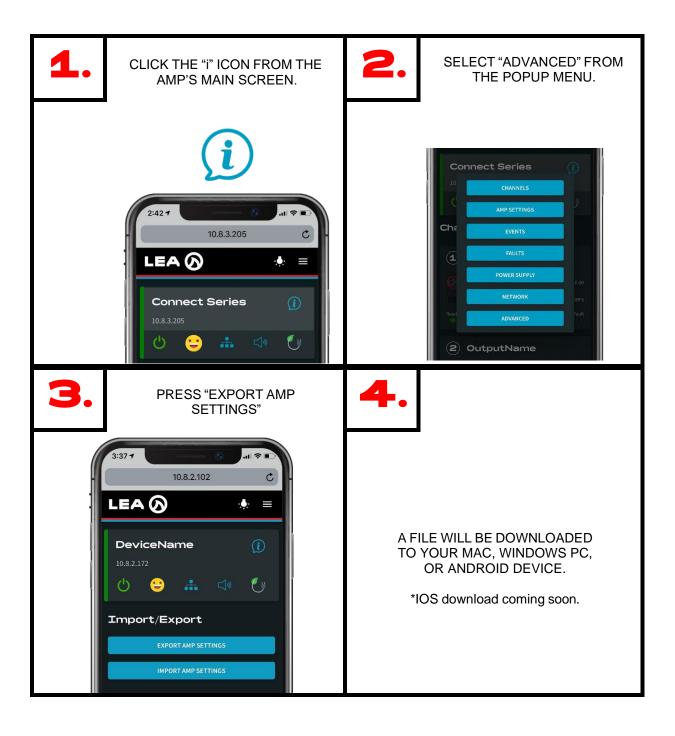
JUST 3 CLICKS AWAY FROM ANYTHING!



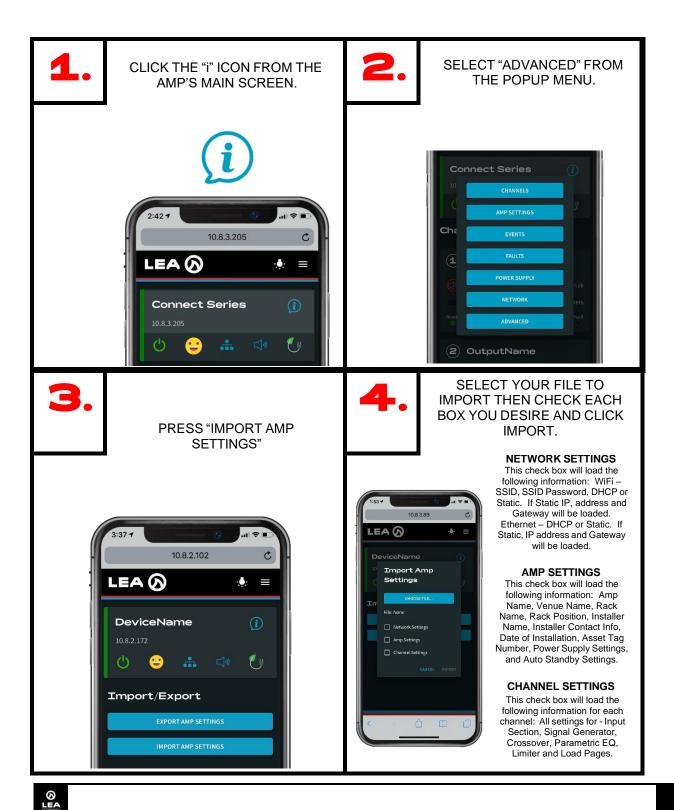
TAP THROUGH THE ICONS TO GET TO CHANNEL SETTINGS



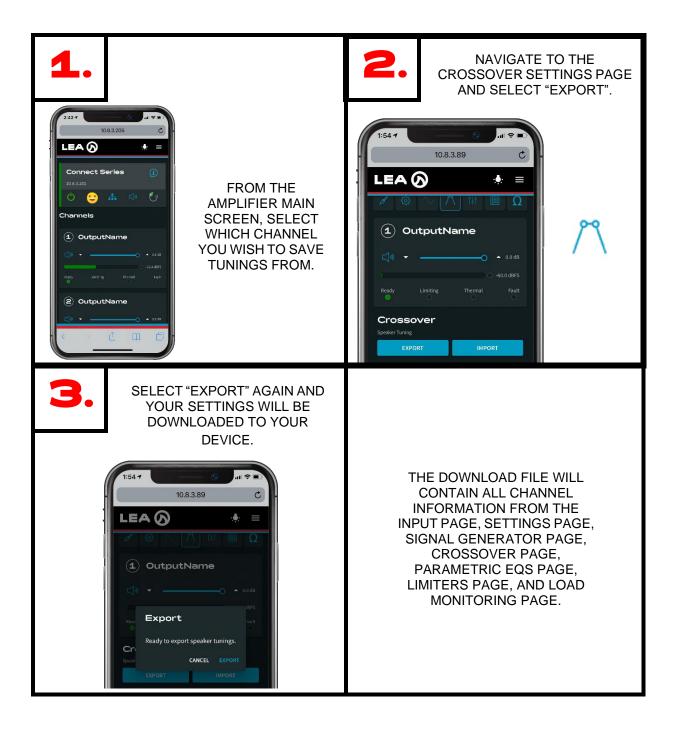
SAVE AMP FILES



LOAD AMP FILES



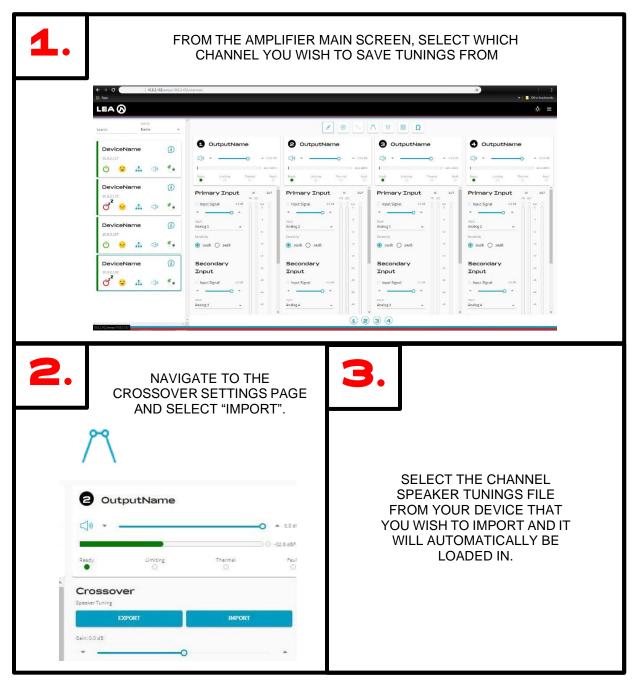
SAVE CHANNEL SPEAKER TUNINGS



WEBAPP UI | PageGuide CONTINUED

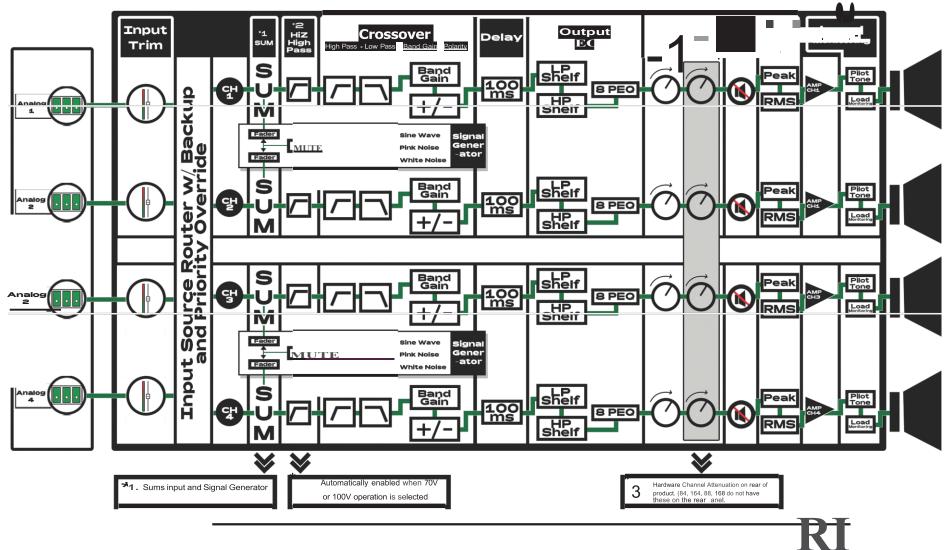
LOAD CHANNEL SPEAKER TUNINGS

AVAILABLE ON MAC, WINDOWS PC, OR ANDROID DEVICES. *IOS compatibility coming soon.



DSP BLOCK DIAGRAM SignalFlow

When you take the LEA Connect Series amplifier out of the box, it will be able to pass analog audio signal from the input to the output without the need to connect to the web-based browser UI. Analog 1 input passes to channel 1 output, analog 2 input passes to channel 2 output and so on. You can control the output attenuation manually via the detented potentiometers on the rear of the amplifier. If you do want to utilize the full feature set the amplifier offers, connect to the amplifier and use the web-based browser UI to monitor and control the amplifier.



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Analog Inputs: Balanced analog inputs with 34dB and 26dB selectable input sensitivity modes. In 34dB mode, the input sensitivity is 1.4 VRMS and allows you to achieve full output in LowZ and 70V modes. In 26dB mode, the input sensitivity is 2.0 VRMS and allows you to achieve full output in 100V mode. These modes are selectable in the input mode of the WebUI.

Priority Input Router: The input router allows you to send any input to any output. You can also send 1 input to multiple outputs or multiple inputs to multiple outputs. Simply select the input channel you would like to send to the output.

Mutes: The channel mutes are located after the input signal. This allows you to see if you are still getting an input signal in the UI while still being able to mute the signal that is going to the output stage.

Lowz/HiZ Mode: The amplifier has a selectable by channel LowZ/HiZ mode in the web browser-based UI. If you have a low impedance load, select the LowZ mode for that channel. If you are running a 70V load, select HiZ 70V. If you are running a 100V load, select HiZ 100V. Based on your selection, the amplifier will set the appropriate output voltage and current for the LowZ or HiZ selection.

Hiz Mode High Pass Filter: When you select HiZ mode, you will notice a High Pass filter enabled by default at 80Hz. This is a user adjustable filter so you can move the filter up or down. This filter is to avoid 70V or 100V speaker transformer saturation by not allowing lower frequencies to pass through. This high pass filter is separate from the high pass filter in the crossover section.

Smart Power Bridge: Smart Power Bridge is a proprietary technology that allows you to gain the benefits of a bridged amplifier output without having to lose a channel like traditional amplifiers. If you have our Connect Series 704 amplifier with a power rating of 700 watts per channel, when you enable Smart Power Bridge, you can get 1400 watts of output on that channel and still have channels 2, 3, and 4 available. With traditional amplifiers in bridge mode, you use 2 channels. Smart Power Bridge gives you the benefits of a bridged output channel without sacrificing an output channel.

Channel Standby: Separate from autostandby, the channel standby feature allows you to disable the output of a channel manually.

Internal Signal Generator: The signal generator allows the user to send an internal signal through to the output for testing and verification purposes. The user can select between Pink Noise, White Noise, or Sine Wave. When in Sine Wave mode, the user can select the desired frequency.

Low Pass Crossover Filters: The low pass filter allows frequencies lower than the specified filter frequency to the output. There are 3 filter types available: Linkwitz-Riley, and Butterworth filters up to 48dB per Octave.

High Pass Crossover Filters: The low pass filter allows frequencies higher than the specified filter frequency to the output. There are 3 filter types available: Linkwitz-Riley, and Butterworth filters up to 48dB per Octave.

GLOSSARY | FeaturesDefinitions CONTINUED

Bandpass Gain: This bandpass gain block is located after the crossover points and allows the user to boost or reduce the gain by +/- 15dB

Output Polarity: This is a user adjustable polarity setting after the crossover points allowing the user to invert the output signal.

Delay: 100milliseconds of delay is available in the connect series amplifiers.

Parametric EQ Filters: 8 user adjustable parametric filters are available per channel.

Speaker Limiter: The speaker limiter allows the user to set output voltage limiting conditions in place to protect the speakers attached to the output. VRMS limiter settings prevent overheating while V Peak limiter setting prevent the speaker form over exerting.

Amplifier Protection Limiter: In the event the amplifier needs to limit the output to protect itself, the amplifier protection limiter will automatically enable itself. The amplifier protection limiter can enable itself if the amplifier is running in the upper limits of its' thermal capacity or if AC voltage drops below a threshold where it can deliver full power to the output. This is a factory setting meant to keep the amplifier operating safely.

Realtime Load Monitoring: This feature allows the user to monitor the load impedance of any channel in Realtime. Once there is more than 5 VRMS on the output, the amplifier will automatically test the impedance of each channel and report it's reading in the web browser-based UI.

Pilot Tone Monitoring: This is an advanced feature that is intended to send an inaudible tone through the output so the user can monitor the impedance of the speakers connected to the output without having to send input signal.

Saving and Loading Speaker Tuning

Files: Saving speaker tuning files in the web browser-based UI saves all the information in the crossover, parametric EQ, limiter, and load monitor section of the amplifier channel. Loading speaker tuning files loads all of the information into the crossover, parametric EQ, limiter and load monitor section of the amplifier channel.

Saving and Loading Amplifier

Settings: Saving amplifier settings in the web browser-based UI saves all of the information from the amplifier and it's up to 4 channels of information. Loading amplifier settings in the web browser-based UI loads all of the information from the amplifier and it's up to 4 channels of information.

3rd Party APIs Support

3rd party API's are available on the Connect Series product pages:

www.leaprofessional.com/products

If you don't see an API for your system, please send your API request to us at:

salesandmarketing@leaprofessional.com

Universal Switch Mode Power Supply with PFC

The power supply we've designed for our <u>Connect Series amplifiers</u> is a single stage interleaved PFC power supply. PFC and isolation stage (normally two separate power stages) merged into one stage with this type of supply. Consequently, this makes the design smaller, more efficient and cheaper for the power level.

the type of PFC we are using for LEA products is Active PFC. We chose Active PFC over Passive because, Active PFC has many advantages over Passive PFC, such as:

1st – Provides universal input and produces a regulated output voltage.

2nd – Active PFC is smaller and lighter, more so as power goes up.

3rd – It's able to achieve unity power factor across a wide load and input range.

4th – Active PFC can reduce input current harmonics.

POWER CONSUMPTION | ThermalCharacteristics

					12	POVAC					
	Output Power		ohm 30W	4 ohm 4 x 30W		2 ohm 4 x 15W		70V 4 x 30W			100V k 30W
	AC Power Consumption	Amps	Watts	Amps	Watts	Amps	Watts	Amps	Watts	Amps	Watts
	1/4 Power Output	0.62	68.20	0.70	77.75	0.83	93.86	0.62	68.32	0.62	68.78
	1/8 Power Output	0.48	48.92	0.54	54.33	0.60	64.10	0.49	50.37	0.49	50.37
	idle	0.38	33.57	0.38	41.83	0.38	56.23	0.22	29.66	0.22	29.42
	Auto Standby (all channels)	0.16	17.40	0.16	17.40	0.16	17.40	0.16	17.40	0.16	17.40
• •	Heat Power	BTU/Hr	Watts	BTU/Hr	Watts	BTU/Hr	Watts	BTU/Hr	Watts	BTU/Hr	Watts
Connect	BTU/Hr & Watts 1/4 Power	129.22	37.87	159.96	46.88	214.56	62.88	130.21	38.16	132.22	38.75
	BTU/Hr & Watts 1/8 Power	114.68	33.61	132.32	38.78	163.07	47.79	120.59	35.34	121.85	35.71
Series					24	40VAC					
34	Output Power	8 oh 4 x 3		4 o 4 x		2 of 4 x 1		70 4 x 3		-	00V : 30W
	AC Power Consumption	Amps	Watts	Amps	Watts	Amps	Watts	Amps	Watts	Amps	Watts
	1/4 Power Output	0.39	69.40	0.41	76.64	0.48	94.54	0.37	66.33	0.39	68.50
	1/8 Power Output	0.31	48.63	0.29	53.67	0.33	65.49	0.31	48.53	0.32	49.88
	idle	0.28	33.60	0.27	41.96	0.27	56.59	0.10	28.71	0.10	28.94
	Auto Standby (all channels)	0.08	17.40	0.08	17.40	0.08	17.40	0.08	17.40	0.08	17.40
	Heat Power	BTU/Hr	Watts	BTU/Hr	Watts	BTU/Hr	Watts	BTU/Hr	Watts	BTU/Hr	Watts
	BTU/Hr & Watts 1/4 Power	128.33	37.61	156.28	45.80	217.29	63.68	123.55	36.21	131.30	38.48
	BTU/Hr & Watts 1/8 Power	114.10	33.44	129.73	38.02	168.08	49.26	114.31	33.50	118.98	34.87

				120VA	C					
Output Power		ohm 60W	4 ohm 4 x 60W		2 ohm 4 x 30W		70V 4 × 60W		100V 4 x 60W	
AC Power Consumption	Amps	Watts	Amps	Watts	Amps	Watts	Amps	Watts	Amps	Watts
1/4 Power Output	0.89	104.06	1.06	120.65	1.27	147.30	0.84	98.30	1.03	99.61
1/8 Power Output	0.61	67.38	0.69	76.21	0.82	92.49	0.60	65.74	0.61	66.97
idle	0.39	33.10	0.39	40.37	0.40	57.18	0.22	29.78	0.22	29.64
Auto Standby (all channels)	0.16	17.60	0.16	17.60	0.16	17.60	0.16	17.60	0.16	17.60
Heat Power	BTU/Hr	Watts	BTU/Hr	Watts	BTU/Hr	Watts	BTU/Hr	Watts	BTU/Hr	Watts
BTU/Hr & Watts 1/4 Power	151.87	44.51	208.79	61.19	297.40	87.16	134.71	39.48	139.59	40.91
BTU/Hr & Watts 1/8 Power	128.13	37.55	159.52	46.75	210.15	61.59	123.69	36.25	128.71	37.72

240VAC

Connect Series 64

Output Power	8 ohm 4 x 60W			ohm 60W	2 ohm 4 x 30W		70V 4 x 60W		100V 4 x 60W	
AC Power Consumption	Amps	Watts	Amps	Watts	Amps	Watts	Amps	Watts	Amps	Watts
1/4 Power Output	0.52	102.85	0.59	119.12	0.68	145.83	1.22	239.55	0.50	97.61
1/8 Power Output	0.39	66.55	0.39	75.60	0.49	90.00	1.05	74.83	0.39	66.00
idle	0.27	33.62	0.27	17.38	0.27	56.53	0.11	29.52	0.11	29.23
Auto Standby (all channels)	0.08	17.30	0.08	17.30	0.08	17.30	0.08	17.30	0.08	17.30
Heat Power	BTU/Hr	Watts	BTU/Hr	Watts	BTU/Hr	Watts	BTU/Hr	Watts	BTU/Hr	Watts
BTU/Hr & Watts 1/4 Power	148.74	43.59	202.51	59.35	291.23	85.35	112.60	33.00	132.43	38.81
BTU/Hr & Watts 1/8 Power	125.23	36.70	156.11	45.75	207.08	60.69	117.82	34.53	125.29	36.72

Connect
Series
124

				1	20VAC					
Output Power		8 ohm 4 x 120W		4 ohm 4 x 120W		2 ohm 4 x 60W		0V 20W	100V 4 x 120W	
AC Power Consumption	Amps	Watts	Amps	Watts	Amps	Watts	Amps	Watts	Amps	Watts
1/4 Power Output	1.55	181.93	1.85	208.37	2.37	265.26	1.40	164.20	1.41	165.59
1/8 Power Output	0.93	106.66	1.07	122.56	1.29	150.81	0.86	98.61	0.86	99.59
idle	0.43	34.06	0.43	40.68	0.42	57.25	0.22	29.96	0.22	29.74
Auto Standby (all channels)	0.19	20.30	0.19	20.30	0.19	20.30	0.19	20.30	0.19	20.30
Heat Power	BTU/Hr	Watts	BTU/Hr	Watts	BTU/Hr	Watts	BTU/Hr	Watts	BTU/Hr	Watts
BTU/Hr & Watts 1/4 Power	206.81	60.61	298.19	87.39	486.57	142.60	152.39	44.66	154.77	45.36
BTU/Hr & Watts 1/8 Power	156.11	45.75	209.88	61.51	306.21	89.74	132.63	38.87	135.09	39.59

				2	40VAC					
Output Power	8 of	im	4 c	hm	2 of	m	70)V	1	00V
Output Power	4 x 12	.0W	4 x 1	20W	4 x 6	W	4 x 1	20W	4 x	120W
AC Power Consumption	Amps	Watts								
1/4 Power Output	0.79	178.79	0.90	205.23	1.14	258.49	0.72	161.58	0.72	161.85
1/8 Power Output	0.51	104.84	0.56	120.76	0.65	150.67	0.47	97.46	0.47	97.71
idle	0.28	33.39	0.28	20.29	0.29	19.75	0.10	29.12	0.10	28.53
Auto Standby (all channels)	0.09	20.00	0.09	20.00	0.09	20.00	0.09	20.00	0.09	20.00
Heat Power	BTU/Hr	Watts								
BTU/Hr & Watts 1/4 Power	197.70	57.94	285.05	83.54	467.46	137.00	142	42	143	42
BTU/Hr & Watts 1/8 Power	150.00	43.96	204.80	60.02	306.24	89.75	128	37	128	38

POWER CONSUMPTION | ThermalCharacteristics

				4	L20VA	C					
	Output Power	8 of 4 x 8		4 of 4 x 8		2 o 4 x 8		70 4 x 8		100' 4 x 80	
	AC Power Consumption	Amps	Watts	Amps	Watts	Amps	Watts	Amps	Watts	Amps	Watts
	1/4 Power Output	2.06	139	2.15	145	1.41	95	2.09	141	2.05	138
	1/8 Power Output	1.30	88	1.33	90	0.98	66	1.30	88	1.29	87
	idle	0.67	45	0.67	45	0.67	45	0.67	45	0.67	45
	Auto Standby (all channels)	0.13	4	0.13	4	0.13	4	0.13	4	0.13	
	Heat Power	BTU/Hr	Watts	BTU/Hr	Watts	BTU/Hr	Watts	BTU/Hr	Watts	BTU/Hr	Watts
_	BTU/Hr & Watts 1/4 Power	201	59	222	65	188	55	208	61	198	5
Connect	BTU/Hr & Watts 1/8 Power	164	48	171	50	157	46	164	48	160	4
Series				1	240VA	-					
84	Output Dawar	80			hm		ohm 2014/		DV BOW	100	
	Output Power AC Power Consumption	4 x a	80W Watts	4 x a	SOW Watts	4 x Amps	80W Watts	4 x Amps	80W Watts	4 x 8 Amps	SUW Watts
	1/4 Power Output	Amps 1.43	137	Amps 1.49	143	Amps 0.95	91 vvalts		138		watts 1
	1/8 Power Output	0.90	137	-	143		63		138		1
	idle	0.30	45		45		45		45		
	Auto Standby (all channels)	0.11	-13	0.11	-13	0.11	43	0.11	4	0.11	
	Heat Power	BTU/Hr	Watts	BTU/Hr	Watts	BTU/Hr	Watts	BTU/Hr	Watts	BTU/Hr	Watts
	BTU/Hr & Watts 1/4 Power	195	57	215	63	174	51		58		inducio
	BTU/Hr & Watts 1/8 Power	155	46		49		43		47		
					120VA	-					
	Output Power	8 o 4 x 1		4 o 4 x 1			ohm 160W	70 4 x 1	DV CONV	100 4 x 16	
	· · ·										Watts
	AC Power Consumption 1/4 Power Output	Amps 3.63	Watts 245	Amps 3.78	Watts 255	Amps 2.24	Watts 151	Amps 3.65	Watts 246	Amps 3.57	watts 24
	1/4 Power Output	3.63	245	3.78	255	2.24	92		246	2.05	13
	idle	2.08	45	2.15	45	0.67	92 45		140	2.05	13
	Auto Standby (all channels)	0.87	43	0.67	45	0.87	45	0.87	45	0.87	
	Heat Power	BTU/Hr	Watts	BTU/Hr	Watts	BTU/Hr	Watts	BTU/Hr	Watts	BTU/Hr	Watts
	BTU/Hr & Watts 1/4 Power	290	85	324	95	242	71		86	277	vvalis
•	BTU/Hr & Watts 1/8 Power	201	59	222	65		52		60	198	5
Connect Series	brofin & watts for ower	201			240VA		52	205		130	
		8 0	hm	4 0			ohm	7	OV	100	ov
164	Output Power	4 x 1		4 x 1			160W		160W	4 x 1	
TO#		+									

	240VAC											
	8 0	hm	4 ohm		2 ohm		70	2V	100V			
Output Power	4 x 1	60W	4 x 1	.60W	4 x 1	.60W	4 x 1	.60W	4 x 1	60W		
AC Power Consumption	Amps	Watts										
1/4 Power Output	2.49	239	2.62	251	1.53	147	2.52	242	2.47	237		
1/8 Power Output	1.43	137	1.49	143	0.95	91	1.44	138	1.41	135		
idle	0.75	45	0.75	45	0.75	45	0.75	45	0.75	45		
Auto Standby (all channels)	0.11	4	0.11	4	0.11	4	0.11	4	0.11	4		
Heat Power	BTU/Hr	Watts										
BTU/Hr & Watts 1/4 Power	270	79	311	91	229	67	280	82	263	77		
BTU/Hr & Watts 1/8 Power	195	57	215	63	174	51	198	58	188	55		

120VAC

	80	hm	4 o	hm	2 0	hm	70)V	10	0V
Output Power	4 x 3	4 x 350W 4 x 350W								
AC Power Consumption	mption Amps Watts Amp		Amps	Watts	Amps	Watts	Amps	Watts	Amps	Watts
1/3 Power Output	4.99	590	5.2	619	3.08	366	4.995	586	4.89	578
1/8 Power Output	2.3	268	2.37	277	1.6	185	2.26	264	2.25	263
idle	0.77	75	0.77	75	0.77	75	0.77	75	0.77	75
Auto Standby (all channels)	0.14	5	0.14	5	0.14	5	0.14	5	0.14	5
Heat Power	BTU/Hr	Watts	BTU/Hr	Watts	BTU/Hr	Watts	BTU/Hr	Watts	BTU/Hr	Watts
BTU/Hr & Watts 1/3 Power	425	125	505	148	450	132	400	117	337	110
BTU/Hr & Watts 1/8 Power	315	92	345	101	329	96	306	90	297	87

Connect Series 354

	80	hm	4 0	4 ohm		2 ohm		DV	100V	
Output Power	4 x 3	50W	4 x 3	350W						
AC Power Consumption	Amps	Watts								
1/3 Power Output	2.50	590	2.60	619	1.54	366	2.50	586	2.45	578
1/8 Power Output	1.15	268	1.19	277	0.80	185	1.13	264	1.13	263
idle	0.39	75	0.39	75	0.39	75	0.39	75	0.39	75
Auto Standby (all channels)	0.07	5	0.07	5	0.07	5	0.07	5	0.07	5
Heat Power	BTU/Hr	Watts								
BTU/Hr & Watts 1/3 Power	425	125	505	148	450	132	400	117	337	110
BTU/Hr & Watts 1/8 Power	315	92	345	101	329	96	306	90	297	87

POWER CONSUMPTION | ThermalCharacteristics CONTINUED

120VAC

Output Power		hm 100W	4 ohm 4 x 700W		2 ohm 4 x 700W		70V 4 x 700W		100V 4 x 700W	
AC Power Consumption	Amps	Watts	Amps	Watts	Amps	Watts	Amps	Watts	Amps	Watts
1/3 Power Output	9.49	1123	9.83	1166	5.64	667	9.47	1130	9.28	1104
1/8 Power Output	3.96	468	4.14	488	2.56	300	3.95	469	3.86	457
idle	0.78	76	0.78	76	0.78	76	0.78	76	0.78	76
Auto Standby (all channels)	0.15	5	0.15	5	0.15	5	0.15	5	0.15	5
Heat Power	BTU/Hr	Watts	BTU/Hr	Watts	BTU/Hr	Watts	BTU/Hr	Watts	BTU/Hr	Watts
BTU/Hr & Watts 1/3 Power	618	181	745	218	635	186	645	189	565	166
BTU/Hr & Watts 1/8 Power	390	114	452	133	411	120	395	116	360	106

Connect Series 704

240VAC

	80	hm	40	hm	20	hm	70)V	10	0V
Output Power	4 x 7	W00	4 x 7	4 x 700W 4 x 700W 4 x 700W 4		4 x 7	W00			
AC Power Consumption	Amps	Watts	Amps	Watts	Amps	Watts	Amps	Watts	Amps	Watts
1/3 Power Output	4.75	1123	4.92	1166	2.82	667	4.74	1130	4.64	1104
1/8 Power Output	1.98	468	2.07	488	1.28	300	1.98	469	1.93	457
idle	0.39	76	0.39	76	0.39	76	0.39	76	0.39	76
Auto Standby (all channels)	0.08	5	0.08	5	0.08	5	0.08	5	0.08	5
Heat Power	BTU/Hr	Watts	BTU/Hr	Watts	BTU/Hr	Watts	BTU/Hr	Watts	BTU/Hr	Watts
BTU/Hr & Watts 1/3 Power	618	181	745	218	635	186	645	189	565	166
BTU/Hr & Watts 1/8 Power	390	114	452	133	411	120	395	116	360	106

120VAC

	80	hm	4 ohm		20	hm	70V		100V	
Output Power	2 x 3	50W	2 x 350W							
AC Power Consumption	Amps	Watts	Amps	Watts	Amps	Watts	Amps	Watts	Amps	Watts
1/3 Power Output	2.58	309	2.70	324	1.64	197	2.56	307	2.53	304
1/8 Power Output	1.23	148	1.28	153	0.89	107	1.23	147	1.22	146
idle	0.43	52	0.43	52	0.43	52	0.43	52	0.43	52
Auto Standby (all channels)	0.03	3	0.03	3	0.03	3	0.03	3	0.03	3
Heat Power	BTU/Hr	Watts	BTU/Hr	Watts	BTU/Hr	Watts	BTU/Hr	Watts	BTU/Hr	Watts
BTU/Hr & Watts 1/3 Power	258	76	303	89	227	80	248	73	239	70
BTU/Hr & Watts 1/8 Power	204	60	221	65	214	63	204	60	199	58

Connect Series 352

240VAC												
Output Power	ut Power 2 x 350W			hm 50W		ohm 350W)V 150W	100V 2 x 350W			
AC Power Consumption	Amps	Watts	Amps	Watts	Amps	Watts	Amps	Watts	Amps	Watts		
1/3 Power Output	1.29	309	1.35	324	0.82	197	1.28	307	1.27	304		
1/8 Power Output	0.62	148	0.64	153	0.45	107	0.61	147	0.61	146		
idle	0.22	52	0.22	52	0.22	52	0.22	52	0.22	52		
Auto Standby (all channels)	0.01	3	0.01	3	0.01	3	0.01	3	0.01	3		
Heat Power	BTU/Hr	Watts	BTU/Hr	Watts	BTU/Hr	Watts	BTU/Hr	Watts	BTU/Hr	Watts		
BTU/Hr & Watts 1/3 Power	258	76	303	89	227	80	248	73	239	70		
BTU/Hr & Watts 1/8 Power	204	60	221	65	214	63	204	60	199	58		

120VAC

0.1.1.1	80	hm 00W	4 ohm 2 x 700W		-	hm	70			0V 100W
Output Power	2 X /	0000	2 X /	0000	2 X /	'00W	2 X /	'00W	2 X /	0000
AC Power Consumption	Amps	Watts	Amps	Watts	Amps	Watts	Amps	Watts	Amps	Watts
1/3 Power Output	4.80	576	4.98	597	2.89	347	4.83	579	2.22	266
1/8 Power Output	2.07	248	2.15	258	1.37	164	2.08	249	2.03	243
idle	0.43	52	0.43	52	0.43	52	0.43	52	0.43	52
Auto Standby (all channels)	0.03	3	0.03	3	0.03	3	0.03	3	0.03	3
Heat Power	BTU/Hr	Watts	BTU/Hr	Watts	BTU/Hr	Watts	BTU/Hr	Watts	BTU/Hr	Watts
BTU/Hr & Watts 1/3 Power	358	105	420	123	363	106	370	109	330	97
BTU/Hr & Watts 1/8 Power	243	71	273	80	233	74	247	72	229	67

Connect Series 702

	240VAC												
Output Power		hm 100W		ohm 100W		hm 100W		0V 100W		0V '00W			
AC Power Consumption	Amps	Watts	Amps	Watts	Amps	Watts	Amps	Watts	Amps	Watts			
1/3 Power Output	2.40	576	2.49	597	1.45	347	2.41	579	1.11	266			
1/8 Power Output	1.03	248	1.08	258	0.68	164	1.04	249	1.01	243			
idle	0.22	52	0.22	52	0.22	52	0.22	52	0.22	52			
Auto Standby (all channels)	0.01	3	0.01	3	0.01	3	0.01	3	0.01	3			
Heat Power	BTU/Hr	Watts	BTU/Hr	Watts	BTU/Hr	Watts	BTU/Hr	Watts	BTU/Hr	Watts			
BTU/Hr & Watts 1/3 Power	358	105	420	123	363	106	370	109	330	97			
BTU/Hr & Watts 1/8 Power	243	71	273	80	233	74	247	72	229	67			

Connect Series 88

	120VAC													
	8 ohm		4 ohm		2 ohm		70V		10					
Output Power	8 x 1	.60W												
AC Power Consumption	Amps	Watts												
1/4 Power Output	6.80	458	7.16	483	4.00	270	6.87	463	6.73	454				
1/8 Power Output	3.69	249	3.80	256	2.26	152	3.66	247	3.56	240				
idle	1.08	73	1.08	73	1.08	73	1.08	73	1.08	73				
Auto Standby (all channels)	0.23	7	0.23	7	0.23	7	0.23	7	0.23	7				
Heat Power	BTU/Hr	Watts												
BTU/Hr & Watts 1/4 Power	472	138	556	163	374	110	488	143	457	134				
BTU/Hr & Watts 1/8 Power	304	89	329	96	246	72	296	87	273	80				

	240VAC												
	8 ohm		4 ohm		2 ohm		70V		100V				
Output Power	8 x 1	60W	8 x 1	.60W	8 x 1	60W	8 x 1	.60W	8 x 1	60W			
AC Power Consumption	Amps	Watts											
1/4 Power Output	4.67	449	4.92	473	2.75	264	4.72	453	4.63	444			
1/8 Power Output	2.55	244	2.67	256	1.58	152	2.57	247	2.50	240			
idle	1.22	73	1.22	73	1.22	73	1.22	73	1.22	73			
Auto Standby (all channels)	0.19	7	0.19	7	0.19	7	0.19	7	0.19	7			
Heat Power	BTU/Hr	Watts											
BTU/Hr & Watts 1/4 Power	439	129	521	153	356	104	455	133	424	124			
BTU/Hr & Watts 1/8 Power	288	84	329	96	246	72	296	87	273	80			

	120VAC													
	8 ohm		4 ohm		2 ohm		70V		100V					
Output Power	8 x 8	30W	8 x 8	30W	8 x 8	30W	8 x 8	BOW	8 x 8	30W				
AC Power Consumption	Amps	Watts												
1/4 Power Output	3.69	249	3.88	261	2.30	155	3.73	252	3.66	247				
1/8 Power Output	2.14	145	2.23	151	1.44	97	2.16	146	2.11	142				
idle	1.08	73	1.08	73	1.08	73	1.08	73	1.08	73				
Auto Standby (all channels)	0.23	7	0.23	7	0.23	7	0.23	7	0.23	7				
Heat Power	BTU/Hr	Watts												
BTU/Hr & Watts 1/4 Power	304	89	346	101	255	75	312	92	297	87				
BTU/Hr & Watts 1/8 Power	220	65	241	71	196	57	224	66	213	62				

Connect Series 168

			2	240VA	C					
	80			hm		2 ohm 70V			0V	
Output Power	8 x 8	30W	8 x 8	30W	8 x 8	30W	8 x	80W	8 x 8	30W
AC Power Consumption	Amps	Watts	Amps	Watts	Amps	Watts	Amps	Watts	Amps	Watts
1/4 Power Output	2.55	244	2.67	256	1.58	152	2.57	247	2.52	242
1/8 Power Output	1.48	142	1.54	148	1.00	96	1.49	143	1.46	140
idle	1.22	73	1.22	73	1.22	73	1.22	73	1.22	73
Auto Standby (all channels)	0.19	7	0.19	7	0.19	7	0.19	7	0.19	7
Heat Power	BTU/Hr	Watts	BTU/Hr	Watts	BTU/Hr	Watts	BTU/Hr	Watts	BTU/Hr	Watts
BTU/Hr & Watts 1/4 Power	288	84	329	96	246	72	296	87	280	82
BTU/Hr & Watts 1/8 Power	212	62	233	68	191	56	216	63	205	60

120VAC

	8 0	hm	4 o	hm	2 0	hm	7(70V		0V
Output Power	4 x 1	500W	4 x 15	500W						
AC Power Consumption	Amps	Watts								
1/3 Power Output	18.98	2246	19.66	2332	19.66	2332	18.94	2260	18.56	2208
1/8 Power Output	7.92	936	8.28	976	8.28	976	7.90	938	7.72	914
idle	1.56	152	1.56	152	1.56	152	1.56	152	1.56	152
Auto Standby (all channels)	0.30	10	0.30	10	0.30	10	0.30	10	0.30	10
Heat Power	BTU/Hr	Watts								
BTU/Hr & Watts 1/3 Power	1236	362	1490	436	1270	372	1290	378	1130	332
BTU/Hr & Watts 1/8 Power	780	228	904	266	822	240	790	232	720	212

Connect Series 1504

240VAC

	<mark>8</mark> o	8 ohm 4 ohm 2 ohm 70V		V	100V						
Output Power	4 x 7	00W	4 x 7	W00W	4 x 7	W00W	4 x 7	W00	4 x 7	700W	
AC Power Consumption	Amps	Watts	Amps	Watts	Amps	Watts	Amps	Watts	Amps	Watts	
1/3 Power Output	9.49	2246	9.83	2332	9.83	2332	9.47	2260	9.28	2208	
1/8 Power Output	3.96	936	4.14	976	4.14	976	3.95	938	3.86	914	
idle	0.78	152	0.78	152	0.78	152	0.78	152	0.78	152	
Auto Standby (all channels)	0.15	10	0.15	10	0.15	10	0.15	10	0.15	10	
Heat Power	BTU/Hr	Watts	BTU/Hr	Watts	BTU/Hr	Watts	BTU/Hr	Watts	BTU/Hr	Watts	
BTU/Hr & Watts 1/3 Power	1236	362	1490	436	1270	372	1290	378	1130	332	
BTU/Hr & Watts 1/8 Power	780	228	904	266	822	240	790	232	720	212	

YOUR SUPPORT SYSTEM | LEAHelp

Although we've strived to create simple systems and proactive technologies, we are dedicated to continually supporting you with anything you need. Please don't hesitate to contact us anytime for more information, support, or just to talk audio.

General Support

We have created a multitude of online resources to help with general support topics concerning your amplifier or LEA Professional. Please visit:

https://leaprofessional.com/support/

This page contains resources such as our Knowledge Base, which is a collection of blog posts designed to give a more detailed look at our products and our company. You will also find training videos and several helpful FAQs that might answer any questions you may have.

Also, feel free to contact us directly any time at:

customercare@leaprofessional.com

+1-574-207-4220

LEA LLC 635 S. Lafayette Blvd, Building 113, Suite 109 South Bend IN 46601

Product & Software Support

In order to better serve you, we have created a series of training videos, meant to answer all your product/software questions. To watch our videos please visit:

https://leaprofessional.com/blog/category/video/

If you would prefer to speak with us directly, please contact our technical support team at:

techsupport@leaprofessional.com

System Design Support

For support when spec'ing LEA products into your system designs, please contact our technical support team at:

techsupport@leaprofessional.com

Parts & Service Support

For parts and service support, please contact our support team at:

techsupport@leaprofessional.com

YOUR SUPPORT SYSTEM | LEAHelp CONTINUED

Warranty Support

We stand behind our products and are committed to having one of the best warranties in the industry.

In the United States, we offer a 3 year warranty with Advanced Replacements for the entire 3 year period.

The 3 year warranty can be extended to 6 years simply by registering the serial numbers at time of purchase. Once registered the warranty will be extended to 6 years.

Once extended to 6 years, the first 3 years will be Advanced Replacements while the second 3 years will be free of charge service and parts.

U.S. Customers can register your product here to extend your warranty to 6 years here:

LEA Product Registration: https://leaprofessional.com/lea-product-registration/

Warranty outside the U.S. is honored by the Authorized Distributor in a specific country and may not be the same as the U.S. Warranty.

Please contact your local distributor for warranty information for your specific country.

If you are unsure of who your distributor is, you can find them here: <u>https://leaprofessional.com/partner-map/</u>

Key Contacts

For Ordering Support: Email: <u>customercare@leaprofessional.com</u> Phone: 574.345.0473

For Technical Support: Email: <u>techsupport@leaprofessional.com</u> Phone: 574.345.0474

Warranty, Service, Parts, Repair Support: Email: <u>techsupport@leaprofessional.com</u> Phone: 574.345.0474

Sales Support: Email: <u>customercare@leaprofessional.com</u> Phone: 574.345.0473

Application Support: Email: <u>techsupport@leaprofessional.com</u> Phone: 574.345.0474

EMPOWER CHANGE | SustainabilityStatement

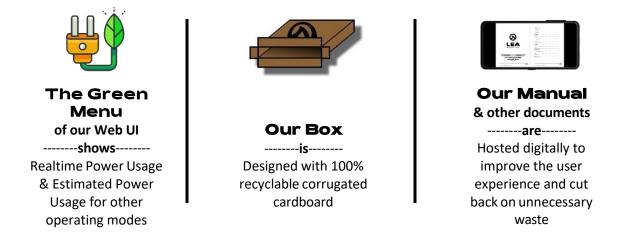
emPower Change is our commitment to environmental sustainability and a call to action for the world. We promise to emPower Change by minimizing our impact on the global environment. Every decision made while designing and constructing our Connect Series amplifier family has been scrutinized to ensure that we not only limit our own impact on the environment, but also provide our customers with the tools to limit their personal impact as well.



Our commitment to emPower Change through environmental sustainability is driven by three pillars of action. We look to these pillars to guide us through the uncharted waters of our bold goals and innovative ideas:

- Know More about our amps, systems, and technologies so that together, we can efficiently and effectively operate sustainable systems.
- Use Less materials and energy to reduce unnecessary waste.
- Be Thoughtful about which materials we decide to use and which companies we decide to partner with to reduce waste and maximize sustainable efforts.

Our Browser-Based Web UI emPowers users to *Know More* about the performance of their amps and systems so that they can understand their impact and cut down on wasteful operations – ultimately optimizing their systems performance while eliminating wasted energy consumption. We have decided to *Use Less* materials by opting for digitally hosted user manuals opposed to printed and automated online services such as ordering, training, and support. And we strive to *Be Thoughtful* whenever we approach new opportunities and projects – such as our 100% recyclable Connect Series box design – so that we can make deliberate decisions that support our sustainability goals.



*By viewing this manual online, you are personally helping to save more than 25 trees. Thanks for your help!

EMPOWER CHANGE | SustainabilityStatement CONTINUED

Our Sustainable Friends

Welch Packaging is our local partner that we work closely with to design our recyclable box. Welch has an impressive commitment to environmental sustainability through their Sustainable Forestry Initiative and SFI Certification for responsibly sourcing cardboard among many other sustainable practices. We're proud to work together to create sustainable solutions.

Steelcase is a 100-year-old company that creates products for the workplace, schools, and healthcare environments. Their sustainability philosophies run deep through their products and company culture with hundreds of quality and sustainability certified products. Their recycled materials furniture is featured throughout our office space.

Zollner Electronics is a leading manufacturer in technology, automotive and aerospace industries among others. Their facilities undergo strict sustainability practices that have earned them ISO Certifications for Environmental Management Systems and Energy Management Systems. Their proactive approach to sustainability is a great fit for manufacturing our Connect Series amplifiers. We regularly audit the manufacturing process to ensure our environmental impact is minimal.

Connect Series Sustainability

By purchasing this amplifier, you are joining us to emPower Change through environmental sustainability. Go ahead and take a moment to feel good about yourself!

The amplifier itself is fully ROHS compliant and does not include any lead or other harmful chemicals known to harm the environment.

The Connect Series amplifier is extremely efficient when being used. During normal use, the amplifier averages over 90% efficiency meaning less than 10% of the AC power is being dissipated into heat. At idle, the amplifier draws very little power when compared to traditional amplifiers. If the amplifier is powered on but there is no signal sent to the amplifier, it will automatically go into Standby Mode reducing the AC power draw even further. Another unique feature is when the amplifier is connected to a PoE network, you can still control and monitor without AC mains being powered on. If you are controlling your amplifiers from an external source, you can remotely power on and off the amplifier via the external I/O connections. When remotely powered off in this manner, the amplifier greatly reduced the AC power draw resulting in very little power demand when the amplifier is not in use.

Connect Series Retirement Plan

Our products are designed to emPower Change for the long haul. But when it comes time to retire a longtime workhorse, we've made the process easy for you and easy on the environment. Here's what you can do to properly retire your amplifier:



Ship to:

End of Life at LEA LLC 635 S. Lafayette Blvd, Building 113, Suite 109 South Bend IN 46601

Find your closest local Distributer at:

www.leaprofessional.com /partner-map



Return to Local Distributor

Brand Name:

LEA LLC

Product Family:

Connect Series

Models:

Connect Series 352, Connect Series 352D, Connect Series 354, Connect Series 354D, Connect Series 702, Connect Series 702D, Connect Series 704, Connect Series 704D, Connect Series 1504, Connect Series 1504D

The Connect Series 704D completed all required testing as the representative model for Connect Series models: Connect Series 352, Connect Series 354, Connect Series 702, Connect Series 704, Connect Series 352D, Connect Series 354D, Connect Series 702D, Connect Series 704D

Equipment Type/ Intended Use:

Audio Power Amplifier

Safety

 EN 62368-1 AUDIO/VIDEO, INFORMATION AND COMMUNICATION TECHNOLOGY EQUIPMENT – PART 1: SAFETY REQUIREMENTS; AMENDMENT A11:2017 - Edition 2 - Revision Date 2017/01/01

EMC

- EN 61000-3-2:2014 Limits for Harmonic Current Emissions (equipment
- input current ≤16A per phase)
- EN 61000-3-3:2013 Limitation of Voltage Fluctuations and Flicker in Low-Voltage Supply Systems Rated
- Current ≤16A
- EN 55032:2012 Limits and Methods of Measurement of Radio Disturbance Characteristics of ITE: Radiated,
- Class B Limits; Conducted, Class B
- EN 55103-2:2009 Electromagnetic Compatibility Product Family Standard for Audio, Video, Audio-Visual
- and Entertainment Lighting Control Apparatus for Professional Use, Part 2: Immunity
- EN 61000-4-2:1995+ A1:1998+ A2:2001 Electrostatic Discharge Immunity (Environment E2-Criteria B, 4k V Contact, 8k V Air
- Discharge)
- EN 301 489-1 V2.1.1 Electro Magnetic Compatibility Radio Equipment and Services
- EN 301 489-1 V2.2.0 Electro Magnetic Compatibility Radio Equipment and Services
- EN 301 489-17 V3.1.1 Electro Magnetic Compatibility Radio Equipment and Services
- EN 301 489-17 V3.2.0 Electro Magnetic Compatibility Radio Equipment and Services

WIRELESS

- EN 300 328 V2.1.1 Wideband Transmission Systems Data Transmission Equipment
- EN62368-1 Audio/video, information and communication technology equipment

Headquarters

635 S. Lafayette Blvd Building 113, Suite 109 South Bend, IN 46601 U.S.A.

Bules Signed:

Jeremy Bules Vice President of Engineering & Operations

DECLARATION OF CONFORMITY

Brand Name:

LEA LLC

Product Family:

Connect Series

Models:

Connect Series 34, Connect Series 34D, Connect Series 64, Connect Series 64D, Connect Series 124, Connect Series 124D

The Connect Series 124D completed all required testing as the representative model for Connect Series models: Connect Series 34, Connect Series 34D, Connect Series 64, Connect Series 64D, Connect Series 124, and Connect Series 124D

Equipment Type/ Intended Use:

Audio Power Amplifier

Safety

 EN 62368-1 AUDIO/VIDEO, INFORMATION AND COMMUNICATION TECHNOLOGY EQUIPMENT – PART 1: SAFETY REQUIREMENTS; AMENDMENT A11:2017 - Edition 2 - Revision Date 2017/01/01

EMC

- EN 61000-3-2:2014 Limits for Harmonic Current Emissions (equipment input current ≤16A per phase)
- EN 61000-3-3:2013 Limitation of Voltage Fluctuations and Flicker in Low-Voltage Supply Systems Rated Current ≤16A
- EN 55032:2012 Limits and Methods of Measurement of Radio Disturbance Characteristics of ITE: Radiated, Class B Limits; Conducted, Class B
- EN 55103-2:2009 Electromagnetic Compatibility Product Family Standard for Audio, Video, Audio-Visual and Entertainment Lighting Control Apparatus for Professional Use, Part 2: Immunity
- EN 61000-4-2:1995+ A1:1998+ A2:2001 Electrostatic Discharge Immunity (Environment E2-Criteria B, 4k V Contact, 8k V Air Discharge)
- EN 301 489-1 V2.1.1 Electro Magnetic Compatibility Radio Equipment and Services
- EN 301 489-1 V2.2.0 Electro Magnetic Compatibility Radio Equipment and Services
- EN 301 489-17 V3.1.1 Electro Magnetic Compatibility Radio Equipment and Services
- EN 301 489-17 V3.2.0 Electro Magnetic Compatibility Radio Equipment and Services

WIRELESS

- EN 300 328 V2.1.1 Wideband Transmission Systems Data Transmission Equipment
- EN62368-1 Audio/video, information and communication technology equipment

Headquarters

635 S. Lafayette Blvd Building 113, Suite 109 South Bend, IN 46601 U.S.A.

Bules NOMI Signed:

Jeremy Bules Vice President of Engineering & Operations

ADDENDUM | G MODELS

This single-page product manual addendum has been written to declare and confirm all Connect Series – G Model amplifiers have been designed exclusively for wired LAN connections and do not support Wi-Fi connectivity. Specifically developed for Government installations, G Model units can be used for any application where Wi-Fi connectivity is not required or is in fact prohibited.



Models: CONNECT 354-G CONNECT 354D-G CONNECT 702-G CONNECT 704-G CONNECT 704D-G CONNECT 1504-G CONNECT 1504D-G

For more information visit the LEA website: https://leaprofessional.com/products/connect-series-government-models/





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