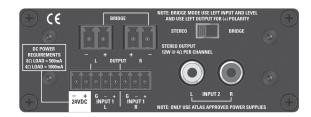


TSD-PA122G 2x12W Global Audio Amplifier







Description

The AtlasIED TSD-PA122G is a reliable, cost-effective 4Ω stereo amplifier perfectly suited for almost any general amplification requirement. The unit is especially suited for adding sound reinforcement to small projector systems as it provides ample power to drive up to four 8Ω loudspeakers in a classroom or boardroom application.

The TSD-PA122G features a balanced stereo phoenix style connector and unbalanced RCA input options with an output of 12W per channel at 4Ω or 24W bridge mono at 8Ω . Front panel gain controls provide adjustment for both left/right or bridged outputs and these removable knobs can easily be replaced with the included tamper-resistant security covers.

The TSD-PA122G is part of a full line of AtlasIED Time Saving Devices. These compact (1.5" x 4" x 2.75") units are designed to solve some of the common audio system problems in the easiest, most efficient, and cost-effective way. All models are made from high quality components and include removable individual I/O connectors for quick and precise wiring, separate ground terminals for all I/Os assuring secured connections, and removable level controls that can be replaced with tamper-resistant security covers. The TSDs are highly efficient and meet most energy standards as one 24V DC power supply (available separately) can power multiple Atlas Time Saving Devices.

Features

- 12W per Channel into 4Ω
- 24W Bridged into 8Ω
- Two (2) Balanced Inputs
- Dual RCA Inputs
- · Removable Level Controls with Set-It-And-Forget-It Security Covers
- Peak Indicator per Channel
- Input Signal Indicator per Channel · Cable Management System
- Multiple Mounting Configurations
- Separate Ground Connections
- Removable Phoenix Style I/O Connectors Meets Most Energy Standards
- Compact Chassis Design

Audio Applications

- Projector Amplifier
- · Zone Amplifier
- · Rear Channel Amplifier

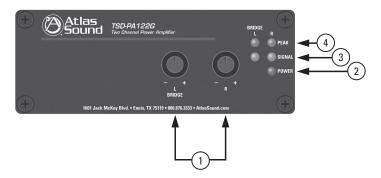
Installation

- Courtroom
- Public Forums
- Churches
- Restaurants
- Schools
- Industrial Facilities
- · House of Worship



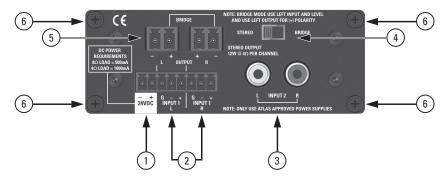
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Front Panel Description



- Input Level Controls L & R Adjusts the gain of the source audio signal of both the left and right
 channels. Turn clockwise to increase the signal level and counter-clockwise to decrease the level.
 When in Bridge Mode, the Left Input control adjusts the audio level at the speakers. Note: The
 Input Level Control knobs can be removed and replaced with a supplied security cover to prevent
 unauthorized adjustment.
- 2. Power LED Illuminates Blue when 24VDC power is present.
- Signal LED Illuminates Green when the input signal strength reaches 25mV to verify a signal path. There is an LED for each channel.
- 4. Peak LED Illuminates Red when the input signal reaches 3dBV below when signal clipping will occur. Occasional flashing is normal but if this indicator is continuously On, then reduce the input level using the input level control on the front panel. There is an LED for each channel.

Rear Panel Description



TSD Input/Output connections are removable for easy system wiring. The connectors have a 3.5mm pitch between pins.

- 1. **DC Power Input** Each TSD that requires DC power comes with a 2 position connector for an external 24VDC power supply (sold separately). Because of the TSDs low power consumption, a single external power supply may power more than one TSD. Please refer to the specifications on current requirements in milliamps to match with the appropriate power supply. Please observe the polarity of the wiring to this connector. **Note**: It is acceptable to exceed the current requirements of the TSDs but NOT safe to use a power supply that is below the current requirement of the device. When using an 8Ω speaker load, use a power supply with 500mA capacity (Atlas TSD-PS24V500MA). For 4Ω speaker loads, use a power supply with at least 1000mA capacity (Atlas TSD-PS24V2500MA).
- Balanced Line Inputs L & R Connect balanced line level signals to these left and right phoenix style connectors. Your connection must be mated properly to the input connector or signal loss and/or noise may occur. Note: Unbalanced line level inputs can also be used by connecting the (G) and (-) terminals together.
- 3. RCA Inputs L & R Unbalanced audio signals applied to these female RCA connectors are controlled from the front panel L & R control knobs.
- 4. Stereo/Bridge Switch Select whether the PA122G operates as a stereo 2-channel amplifier or a single channel with the speaker load bridged across the two outputs. The minimum Stereo mode load is 4Ω and the minimum Bridged mode load is 8Ω. It is recommended that the power is removed from the PA122G when switching between operating modes.
- 5. Speaker Outputs L & R Connect the loudspeaker wiring to these terminals, observing the polarity shown on the rear of the chassis. When in stereo mode, a polarity reversal on one channel will cause poor bass response and low output levels. In Bridged Mode, connect the 8Ω speaker load across the left speaker output (+) terminal and the right speaker output (-) terminal.

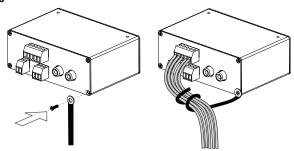


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Cable Management Retainer Points - Each TSD includes two cable retainer straps for securing the included cable management retainers. Remove one of the rear panel screws, align the panel hole with a retainer and firmly tighten the screws.

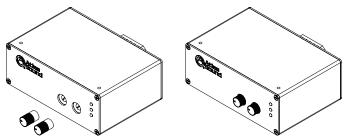
Cable Management



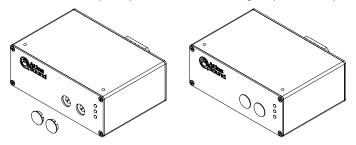
Knob and Security Cover

All front panel level controls feature a removable knob that can be replaced with an included security cover. Follow these steps to prevent potentiometer damage or unwanted changes.

Knob Installation - Turn the potentiometer shaft fully counter-clockwise. Align the knob indicator
to the lowest setting on the panel and the potentiometer shaft slot. Carefully press the knob onto
the potentiometer shaft. Do not force or damage may occur to the potentiometer.



Security Cover Installation - Remove the knob from the panel and insert the cover. Small pliers may be required to remove the knobs. Align the security cover to the level control panel hole. Push the cover into the hole until it snaps into place. Do not force or damage may occur to the potentiometer.





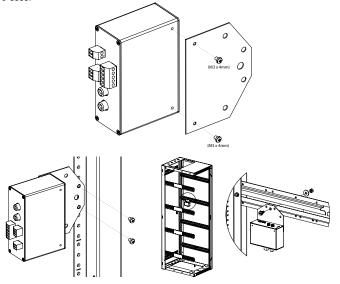
Mounting

Listed below are the ways to mount the TSD and the optional accessories that can be purchased.

 Velcro[™] - Each unit includes two 2" x 2" pieces of industrial-grade Velcro[™] with adhesive backing to adhere to any flat surface. Clean all surfaces before applying the adhesive side of the Velcro[™].



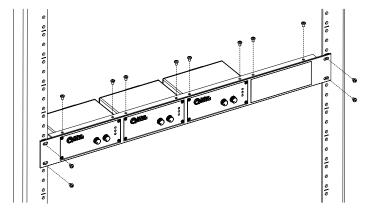
2. Multi Mount Plate - Each TSD includes a versatile multi-position mounting plate. This plate allows the TSD to be mounted to any surface; but is ideal for use with rear rack rails or side rack hat channels. Use the included M3 x 4mm screws to install the plate on the TSD. Note: Only use the included M3 x 4mm screws as other screws may be too long and will cause internal damage to the TSD. The multi-position mounting plate is a new addition being included with TSDs. If the TSD being used did not include the mounting plate, contact AtlasIED customer service at 1-800-876-3333.



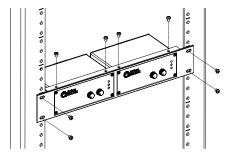


Optional Mounting Accessories

 TSD-RMK 19" Width Rack Mount Kit - For 19" rack mounting, AtlasIED offers an optional rack mount kit, the TSD-RMK. This rack mount kit can support up to four TSD units. The kit includes three blank panels designed to fill any unused slots. Use the included hardware to mount the TSD into the rack mount kit using the top mount screw holes on the TSD.



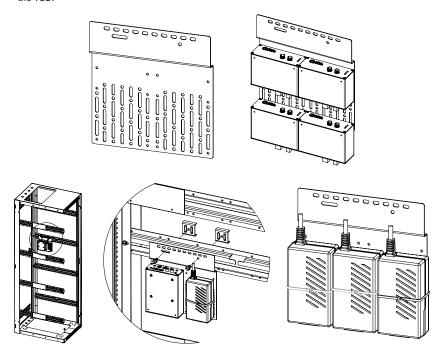
TSD-RMKHR Half Width Rack Mount Kit - AtlasIED offers an optional rack mount kit that can be used in half width rack applications including the AtlasIED WMA-HR and AWR-HR models. The TSD-RMKHR can support up to two TSDs. Included is an extra blank panel to fill one of the spaces if only one TSD is being used.



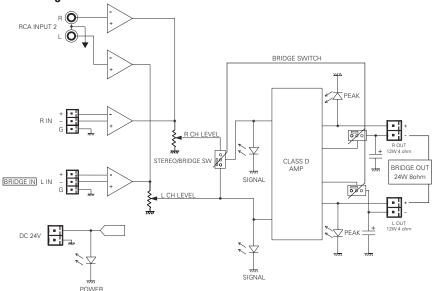
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3. TSD-RRMK Rear Rack Mounting Kit - For complete flexibility in mounting a TSD or TSD external power supplies the optional TSD-RRMK is available. The TSD-RRMK can support mounting of either two larger TSDs with external power supplies or up to 4 TSD models. Note: Only use the included M3 x 4mm screws as other screws may be too long and will cause internal damage to the TSD.







Specifications

Description Two Channel Amplifier Load Rating $8\Omega - 6W \times 2$ CH

4Ω - 12W x 2 CH

 8Ω Bridge Mode - 24W x 1 CH

Chassis Color Black
Chassis Material Aluminum

Inputs

Type Qty 2, Unbalanced Connection RCA Left and Right

Impedance $10K\Omega$

Input Level 316mV (-10dBV)

Type Oty 2, Balanced Line

Connection Removable 3 Position Captive Screw 3.5mm Spacing

Impedance $10K\Omega$ Balanced, $5K\Omega$ Unbalanced

Line Input Level 500mV (-6dB) Balanced

Outputs

Type Qty 2, Speaker Output

Connection Removable 2 Position Captive Screw 5mm Spacing

Wire Size 14 Gauge Max



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Controls

Operation Mode Switch Stereo or Bridge

Indicators

Input Signal Green, 25mV On Threshold, Qty 2 Peak Red, -3dB Before Clip, Qty 2

Power Blue

Electrical

Frequency Response 20Hz - 20kHz (±3dB)

THD 1% @ 1kHz Signal to Noise 80dBV

Power Requirements Note: All Current and Watt data is based on AC power

 $consumption \ using \ the \ TSD-PS24V2500mA \ Power \ Supply.$

 8Ω 4Ω

Voltage 24VDC 500mA 24VDC 1000mA

Idle Current 40mA 40mA Idle Watts 2.7W 2.7W Average Current 140mA 250mA Average Watts 10W 20W Max Current 510mA 510mA Max VA Watts 38W 38W

Dimensions H 1.5" (39mm) x W 4" (101mm) x D 2.75" (70mm)

Weight 6oz, .165kg

Included Accessories

Velcro[™] Industrial-Grade

Optional Accessories

TSD 24VDC Power Supply

TSD-RMK 1 RU 19" Width Rack Mount Panel (Supports 4 TSD Units)
TSD-RMKHR 1 RU Half Rack Width Panel (Supports 2 TSD Units)

TSD-RRMK Rear Rack Mounting Kit

Safety and Certifications

External Power Supply cUL, CE, RoHS, TUV



Limited Warranty

All products manufactured by AtlasIED are warranted to the original dealer/installer, industrial or commercial purchaser to be free from defects in material and workmanship and to be in compliance with our published specifications, if any. This warranty shall extend from the date of purchase for a period of three years on all AtlasIED products, including SOUNDOLIER brand, and ATLAS SOUND brand products except as follows: one year on electronics and control systems; one year on replacement parts; and one year on Musician Series stands and related accessories. Additionally, fuses and lamps carry no warranty. AtlasIED will solely at its discretion, replace at no charge or repair free of charge defective parts or products when the product has been applied and used in accordance with our published operation and installation instructions. We will not be responsible for defects caused by improper storage, misuse (including failure to provide reasonable and necessary maintenance), accident, abnormal atmospheres, water immersion, lightning discharge, or malfunctions when products have been modified or operated in excess of rated power, altered, serviced or installed in other than a workman like manner. The original sales invoice should be retained as evidence of purchase under the terms of this warranty. All warranty returns must comply with our returns policy set forth below. When products returned to AtlasIED do not qualify for repair or replacement under our warranty, repairs may be performed at prevailing costs for material and labor unless there is included with the returned product(s) a written request for an estimate of repair costs before any nonwarranty work is performed. In the event of replacement or upon completion of repairs, return shipment will be made with the transportation charges collect.

EXCEPT TO THE EXTENT THAT APPLICABLE LAW PREVENTS THE LIMITATION OF CONSEQUENTIAL DAMAGES FOR PERSONAL INJURY, ATLASIED SHALL NOT BE LIABLE IN TORT OR CONTRACT FOR ANY DIRECT, CONSEQUENTIAL OR INCIDENTAL LOSS OR DAMAGE ARISING OUT OF THE INSTALLATION, USE OR INABILITY TO USE THE PRODUCTS. THE ABOVE WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES INCLUDING BUT NOT LIMITED TO WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

AtlasIED does not assume, or does it authorize any other person to assume or extend on its behalf, any other warranty, obligation, or liability. This warranty gives you specific legal rights and you may have other rights which vary from state to state.

Service

Should your Atlas TSD require service, please contact the AtlasIED warranty department at 1-877-689-8055, ext. 277 to obtain an RA number.

AtlasIED Tech Support can be reached at 1-800-876-3333 or support.atlasied.com.

Visit our website at www.AtlasIED.com to see other Atlas products.

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