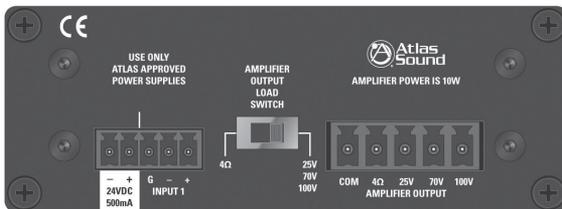




TSD-PA 10VG
Mono 10W Power Amplifier



1601 Jack McKay Blvd. • Ennis, Texas 75119 U.S.A.
Telephone: 800.876.3333 • Fax: 800.765.3435

Description

The AtlasIED TSD-PA10VG is a single channel global amplifier that can deliver up to 10W into a 4 Ω , 8 Ω , 25V, 70V, or 100V speaker load with a balanced mono phoenix style input. The Atlas PA10VG only draws 2.8W when in idle and is over 70% efficient to meet most energy power consumption standards. The front panel has an input level control as well as power, signal, and peak LED indicators. The suggested TSD external power supplies are wide range AC types and will work from 100-240VAC to accommodate global power systems.

The TSD-PA10VG 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

- 10W into 4 Ω
- 5W into 8 Ω
- 10W Into 25v/70v/100v Loads
- One (1) Balanced Input
- Removable Level Control with Set-It-And-Forget-It Security Cover
- Peak Indicator
- Input Signal Indicator
- 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

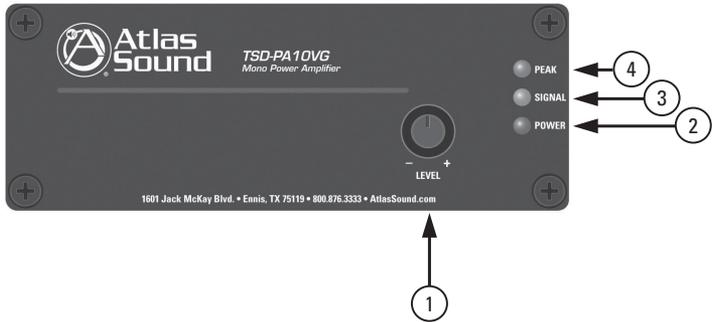
Installation

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



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Front Panel Description

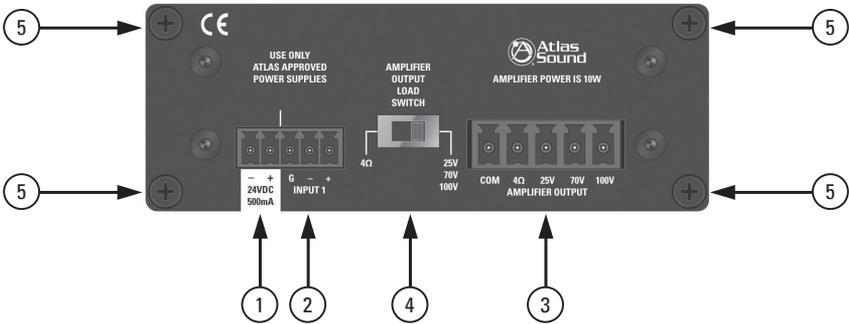


1. **Input Level Control** - Determines the output level at the loudspeakers on the PA10VG. Turn clockwise to increase the signal level and counter-clockwise to decrease the level. **Note:** The Input Level Control knob can be removed and replaced with a supplied security cover to prevent unauthorized adjustment.
2. **Power LED** - Illuminates Blue when 24VDC power is present.
3. **Signal LED** - Illuminates Green when the input signal strength reaches 25mV to verify a signal path.
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.



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Rear Panel Description



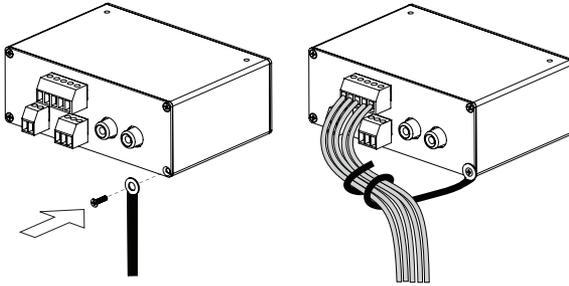
TSD Input/Output connections are removable for easy system wiring. The connectors have a 3.5mm pitch between pins.

- 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.
- Balanced Line Input** - Connect balanced line level signals to the 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.
- Speaker Outputs** - Connect the loudspeaker wiring to these terminals, observing the polarity shown on the rear of the chassis. For low impedance loads, use the "COM" and 4Ω terminals. For high impedance loads, use "COM" and the proper terminal for your system (25/70/100V). It is recommended to keep the sum total of tapped loudspeakers to 10W.
- Output Load Switch** - For 8Ω & 4Ω loads place the switch into the 4Ω position. For 25/70/100V speaker systems place the load switch into 25/70/100V position. Failure to do this may cause the amp to go into protect.
- 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.



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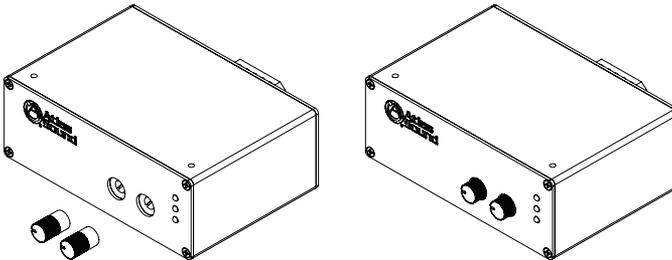
Cable Management



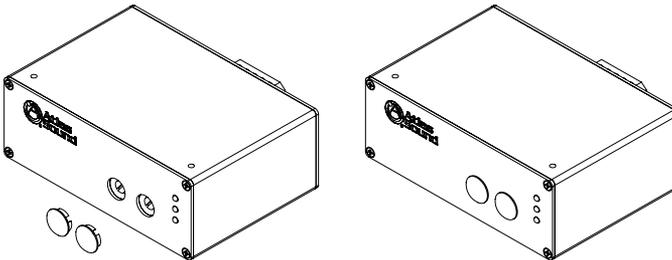
Knob and Security Cover

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.

1. 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.



2. 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.

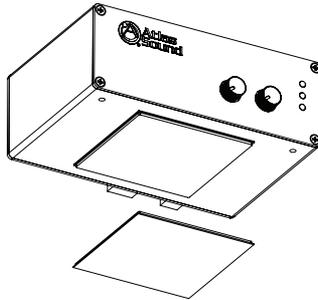


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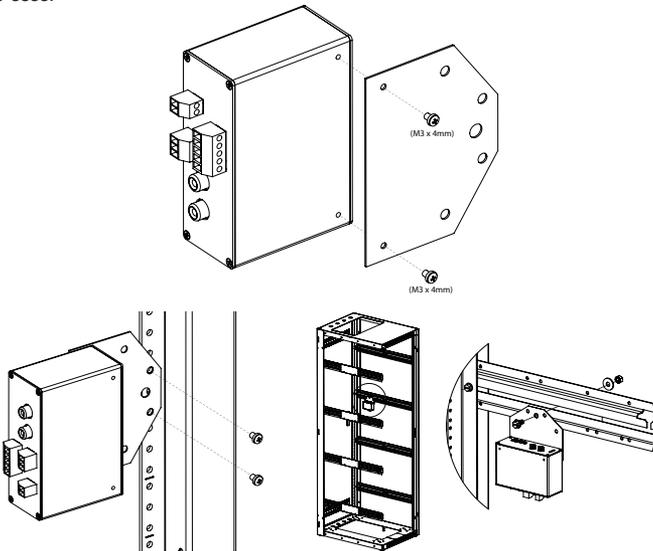
Mounting

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

1. 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™.

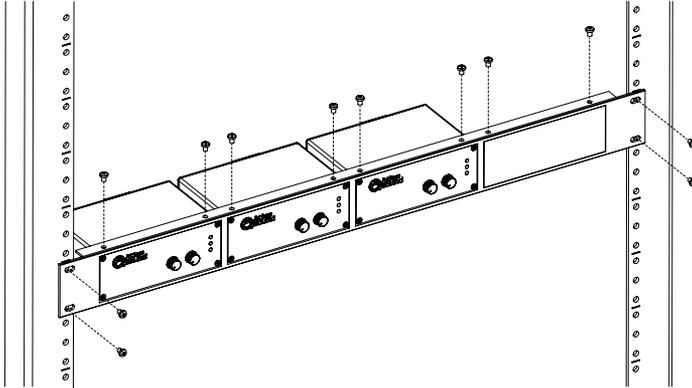


2. Multi Mount Plate - Each TSD includes a versatile multi-position mounting plate. This plate allows the TSD to be mounted to any surface; but is ideal for use with rear rack rails or side rack hat channels. Use the included M3 x 4mm screws as other screws may be too long and will cause internal damage to 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.

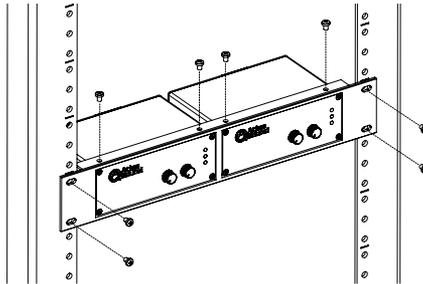


Optional Mounting Accessories

1. 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.

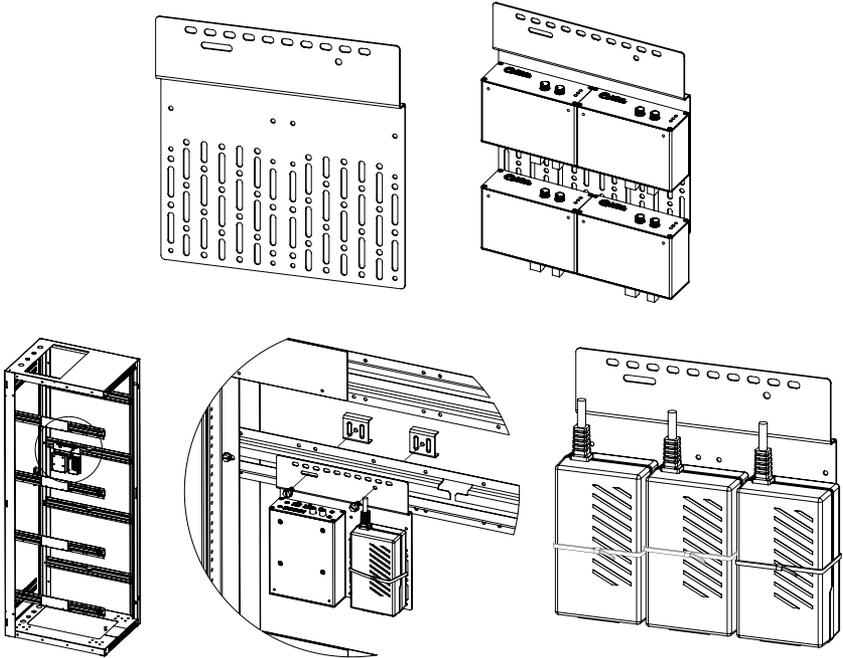


2. TSD-RMKHR Half Width Rack Mount Kit - AtlasIED offers an optional rack mount kit that can be used in half width rack applications including the AtlasIED WMA-HR and AWR-HR models. The TSD-RMKHR can support up to two TSDs. Included is an extra blank panel to fill one of the spaces if only one TSD is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

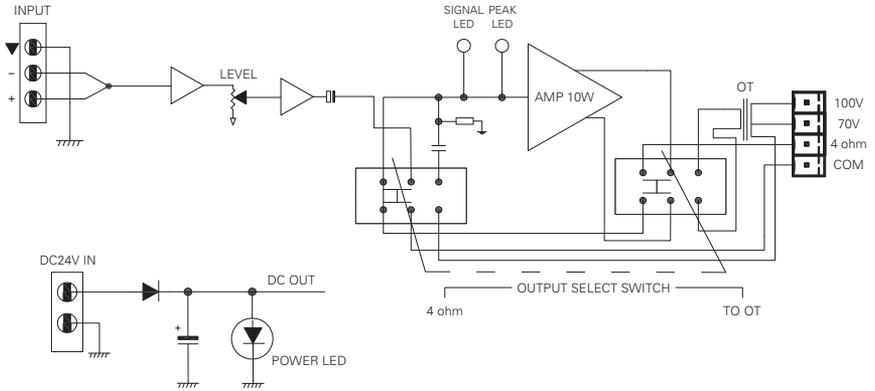


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3. TSD-RRMK Rear Rack Mounting Kit - For complete flexibility in mounting a TSD or TSD external power supplies the optional TSD-RRMK is available. The TSD-RRMK can support mounting of either two larger TSDs with external power supplies or up to 4 TSD 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.



Block Diagram



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Specifications

Description	Mono Commercial Power Amplifier
Chassis Color	Black
Chassis Material	Aluminum
Power Output	5W @ 8Ω, 10W @ 4Ω, 10W @ 25V = 62Ω, 70V = 490Ω, 100V = 1000Ω Loads

Inputs

Type	Qty 1, Balanced Line
Connection	Removable 3 Position Captive Screw 3.5mm Spacing
Impedance	10KΩ Balanced, 5KΩ Unbalanced
Line Input Level	500mV (-6dBV) Balanced

Outputs

Output Taps	4Ω, 25V, 70V, 100V
Type	Speaker Output
Connection	Removable 5 Position Captive Screw 5mm Spacing
Wire Size	14 Gauge Max Wire Size

Controls

Level Control	Qty 1, Removable Knob with Security Cover
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Indicators

Input Signal	Green, 25mV On Threshold
Peak	Red, -3dB Before Clip
Power	Blue

Electrical

Frequency Response	40Hz - 20kHz (±3dB)
THD	0.5% @ 1kHz
Signal to Noise	78dBV

Power Requirements

Note: All Current and Watt data is based on AC power consumption using the TSD-PS24V2500mA Power Supply.

Load Taps	4Ω, 25V = 31Ω Load, 70V = 245Ω Load, 100V = 500Ω Load
Voltage	24VDC 1000mA
Idle Current	60mA
Idle VA Watts	2.8W
Average Current	110mA
Average VA Watts	6.7W
Max Current	240mA
Max VA Watts	14W
Dimensions	H 1.5" (39mm) x W 4" (101mm) x D 2.75" (70mm)
Weight	6oz, .165kg



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Included Accessories

Velcro™	Industrial-Grade
Multi-Mount Plate	Qty 1, Includes Two (2) M3 x 4mm Screws
Cable Retainers	Qty 2
Level Control Knob	Qty 1
Level Control Security Cover	Qty 1

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
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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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