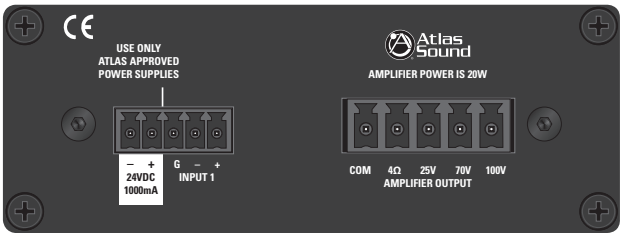
# TSD-PA20VG

## *Mono Power Amplifier*




***TSD-PA20VG***

## Features

- 20W Mono Amplifier
- 4Ω/25/70/100V Output
- One (1) Balanced Input
- Removable Level Control with Set-It-And-Forget-It Security Cover
- Peak Indicator LED
- Input Signal Indicator LED
- 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
- Paging Systems

## Atlas Time Saving Devices

New Atlas Sound Time Saving Devices are designed to solve some of the common audio system problems in the easiest and in the most efficient and cost-effective way. Utilizing the highest quality components and inspired by real world installation issues, the Atlas Sound TSDs include mixers, amplifiers, preamps, and other distribution and control devices to simplify your connections, provide specific application needs, and add flexibility in expansion and changes that prevent expensive system overhauls.

The Time Saving Devices are loaded with features making it versatile and user friendly. The TSD design mandate was to make the installation quick and reliable, saving you valuable time and money. Each model is housed in a compact 1.5" x 4" x 5.2" footprint that allows for placement almost anywhere. Common features 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 a tamper-resistant security cover.

## Description

The Atlas Sound TSD-PA20VG is a cost effective mono amplifier for 4Ω and distributed constant voltage speaker systems. Applications such as house of worship cry rooms, hallways, restrooms, foyers and classrooms will benefit from this compact reliable amplifier. The TSD-PA20V is also a cost effective alternative for small projector systems as it can be used with as many as (16) 25/70/100V ceiling speakers (tapped at 1W each), plus the extremely small footprint allows for easy mounting. For sound masking applications the TSD-PA20VG has the capacity to drive up to 34 masking speakers tapped at .5W each on a 70.7V line.

Output is gain controlled from a potentiometer on the front panel with removable knob to facilitate installation of a tamper-resistant cover (included).

The TSD-PA20VG is highly efficient and meets most energy standards as one 24V DC power supply (available separately) can power multiple Atlas Time Saving Devices.

## Installation

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

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## Specifications

| | |
|---|---|
| **Description** | 1 x 20W Global Commercial Amplifier |
| **Chassis Color** | Black |
| **Chassis Material** | Aluminum |
| **Power Output** | 20W @ 4Ω, 10W @ 8Ω, 20W @ 25V, 70.7V, 100V 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 |
| **Controls** | |
| Level Control | Qty 1, Removable Knob with Security Cover |
| **Indicators** | |
| Input Signal | Green, 25mV On Threshold |
| Peak | Red, -3dB Before Clip |
| Power | Blue |
| **Electrical** | |
| Frequency Response | 40Hz - 20kHz (±3dB) |
| THD | 15% & 1kHz |
| Signal to Noise | 78dB |
| **Mounting** | |
| Velcro | Industrial-Grade, Included |
| Brackets | Qty 2, Included |
| TSD-RMK | Optional 1 RU Rack Mount Panel (Supports 4 TSD Units) |
| Cable Retainer | Qty 2, Included |
| **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 = 250Ω Load, 100V = 500Ω Load |
| Voltage | 24VDC |
| Idle Current | 50mA |
| Idle VA Watts | 1.2W |
| Average Current | 160mA |
| Average VA Watts | 3.8W |
| Max Current | 490mA |
| Max VA Watts | 11.7W |
| **Dimensions** | H 1.5" (39mm) x W 4" (101mm) x D 5.2" (132mm) |
| **Weight** | 6oz, .165kg |
| **Accessories** | |
| TSD 24VDC Power Supplies | |
| TSD-RMK 1 RU Rack Panel | |
| **Safety and Certifications** | |
| External Power Supply | cUL, CE, RoHS, TUV |

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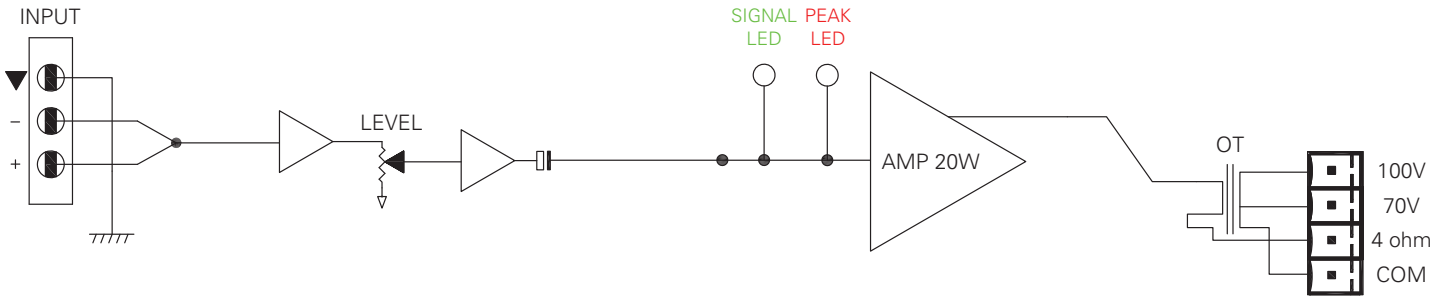
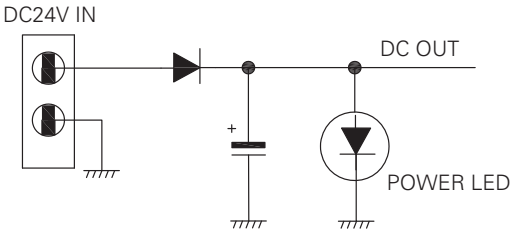
## Block Diagram

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