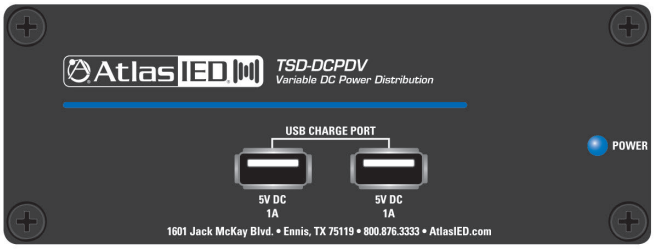
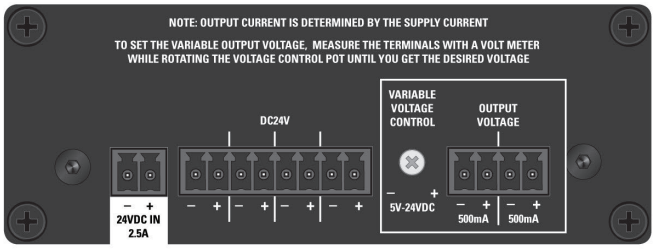
TSD-DCPDV

Variable DC Power Distribution





Features

- Power Distribution for Multiple TSDs From a Single PSU
- 1 In 8 Out Configuration
- Four (4) Fixed 24VDC Outputs
- Two (2) Variable 5V - 24VDC Outputs
- Two (2) USB 5VDC Charge Ports
- Current Operating Range 1A to 3A
- DC Filtering Per Channel
- DC Isolation Per Channel
- Cable Management System
- Multiple Mounting Configurations
- Separate Ground Connections
- Removable Phoenix Style I/O Connectors
- Meets Energy Star™ Standards
- Compact Chassis Design

Audio Applications

- Wireless Microphone Power Supplies
- TSD Power Distribution
- Reduce AC Outlets from Power Strips
- Use Less Power

Installation

- Government Buildings
- Medical Facilities
- Office Environments
- Churches
- Restaurants
- Schools
- Industrial Facilities
- House of Worship

AtlasIED Time Saving Devices

New AtlasIED 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 AtlasIED 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 them 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 2.75" 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.

General Description

The AtlasIED TSD-DCPDV Variable DC Power Distribution Block is designed to reduce cost and wiring clutter in installations where multiple DC power supplies with the same voltage are required. Each unit has one 24VDC input, 4 fixed 24VDC outputs, 2 5VDC USB charge ports, and 2 regulated variable outputs ranging from 5V - 24VDC. Each output has additional filtering to negate any AC ripple that may be present in the DC signal. Both USB and Variable outputs have a current overdrive protection circuit. The current output also depends on the power supply current rating.

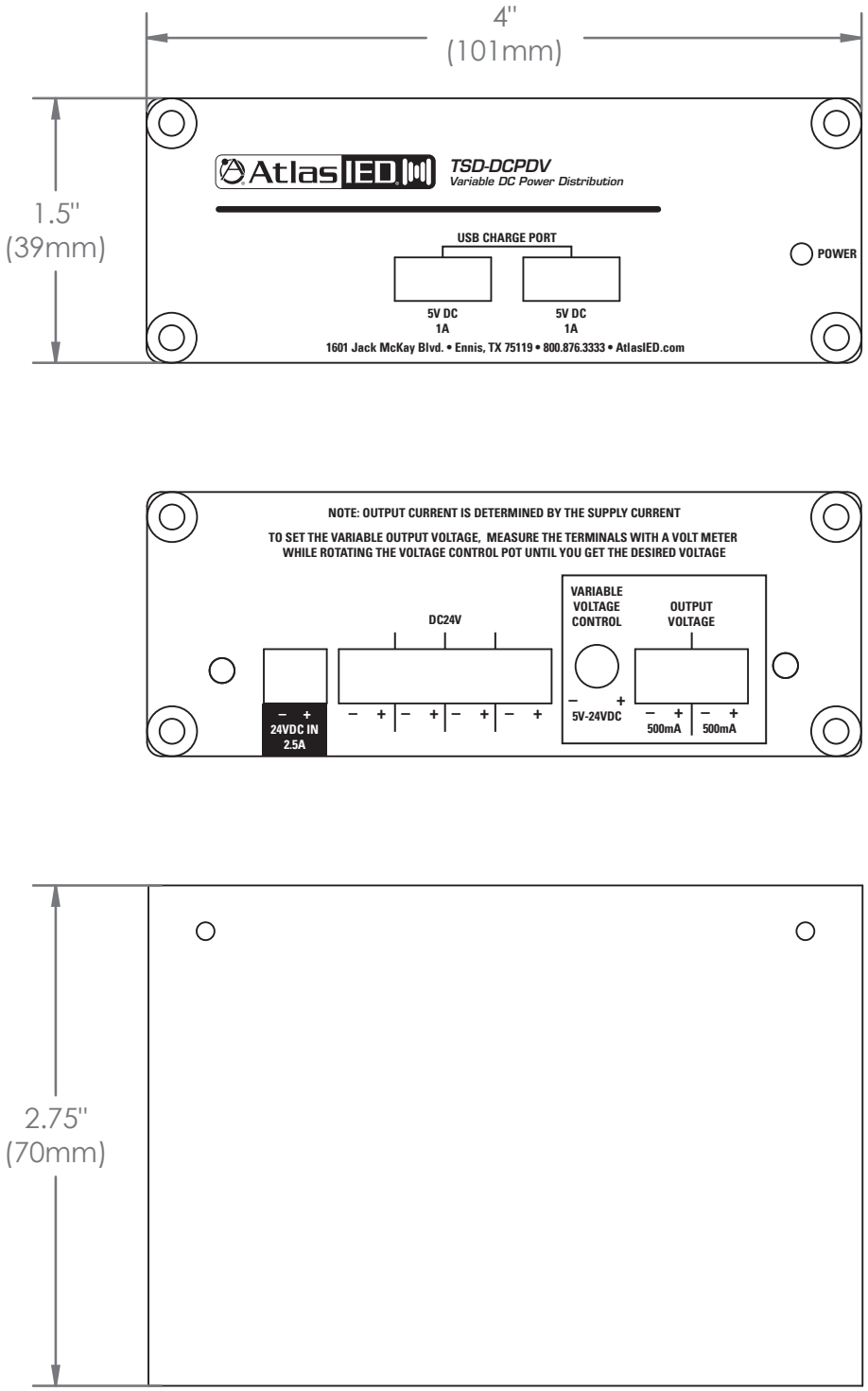
The TSD-DCPDV is highly efficient and meets Energy Star standards as it supplies power to multiple AtlasIED Time Saving Devices via a single PSU (available separately).

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System	
Type	DC Power Distribution with Fixed & Variable Outputs
Inputs	
DC Voltage Input	1A - 3A, 24V DC, 3A Max
Connection	Removable 2 Position Captive Screw 3.5mm Spacing
Outputs	
DC Voltage Output Fixed	24V DC, Current Output Related to Input Power Supply and Load
Connection	Qty 4, Removable 2 Position Captive Screw 3.5mm Spacing
DC Voltage Output Fixed	5V DC, 1A Each
Connection	Qty 2, USB Charge Port, Front Panel, **Note:** May Not Charge All Devices
DC Voltage Variable	Qty 2, Ports 1 Adjustable Voltage, Variable DC Output 5V - 24VDC, 500mA Each
Controls	
Variable DC Adjust	Recess Pot
Indicators	
Power	Blue LED
Electrical	
Isolation	Active
Filters	DC Storage & AC Ripple
Over Current	Auto Reset Thermal Switch for Variable Output
Power Requirements	
Idle	10mA
Mechanical	
Chassis Color	Black
Chassis Material	Aluminum
Product Dimensions (HxWxD)	1.5" x 4" x 2.75" (39mm x 101mm x 70mm)
Shipping Dimensions (HxWxD)	2.75" x 5.25" x 3.7" (69mm x 133mm x 94mm)
Net Weight	0.375 lbs (0.165kg)
Shipping Weight	0.625 lbs (0.28kg)
Included Accessories	
Velcro™	Qty 2, Industrial-Grade 2" x 2"
Multi-Mount Plate	Qty 1, Includes Two (2) M3 x 4mm Screws
Cable Retainer	Qty 2
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
Warranty Coverage	
Warranty Period	3 Years

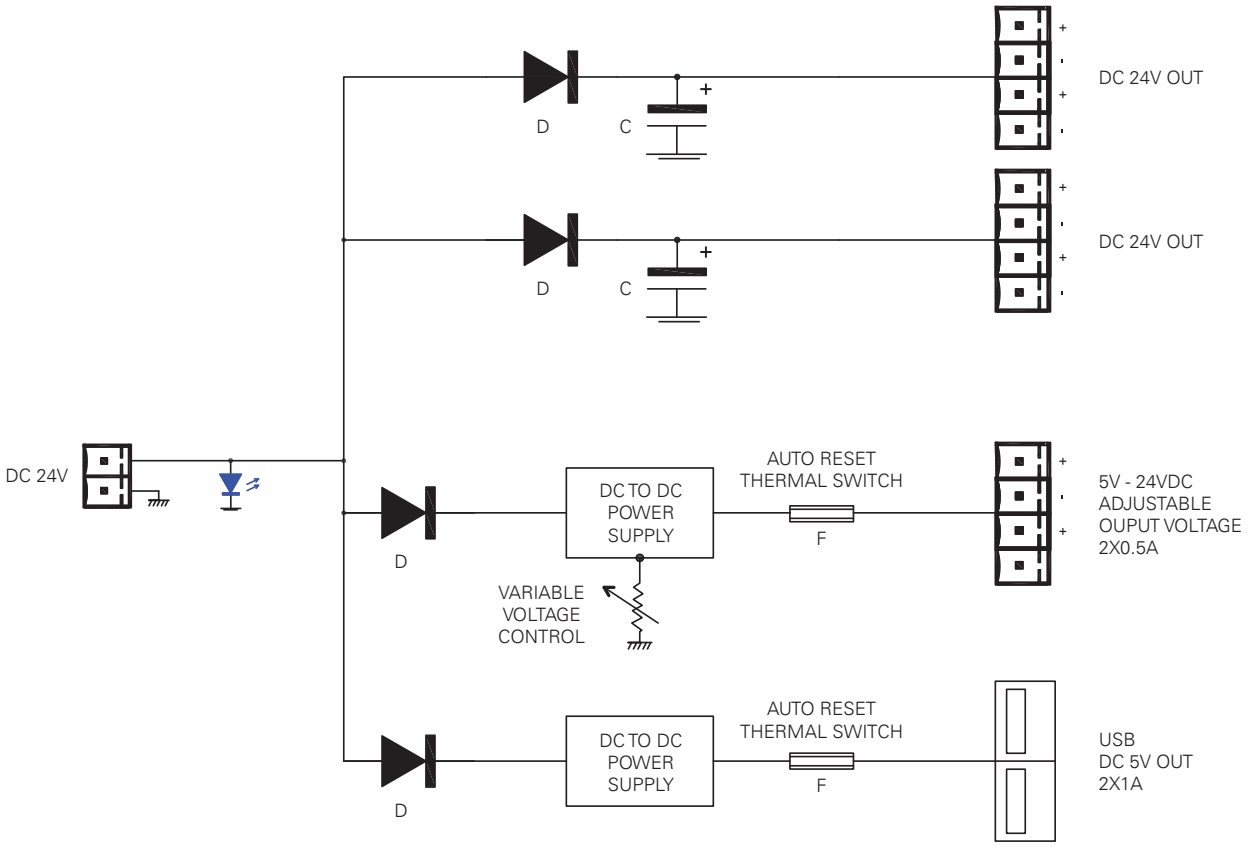
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Dimensional Drawings



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Block Diagram



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Architect & Engineer Specifications

The AtlasIED TSD-DCPDV shall be designed to distribute 24V DC power to AtlasIED TSD devices or other audio equipment requiring a DC power source. The TSD-DCPDV shall be designed for use with wireless microphones receivers that typically require 12-18VDC PSUs. The rear panel includes one 24V input for a user selectable power supply up to 2500mA, four fixed 24V outputs, and two 5-24V variable outputs. Voltage for variable outputs shall be adjusted from a secure trim pot. The TSD-DCPDV shall include 2 USB 5VDC charge pots for charging mobile devices or to power a USB style rack light.

The TSD-DCPDV shall provide DC power distribution to multiple TSD units from a single power supply. The TSD-DCPDV shall provide DC filtering, channel isolation and separate ground connection.

The DC power dtistribution unit shall be the AtlasIED TSD-DCPDV.

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