



120 WATT CLASS T DIGITAL AUDIO AMPLIFIER

Model: DTA-120

User Manual



Thank you for purchasing the Dayton Audio DTA-120 Class T Digital Audio Power Amplifier. This amplifier features the Tripath TK2050 chipset that provides 60W continuous power per channel (120W total) into an 4 ohm load. Class T amplifiers using Tripath's proprietary Digital Power Processing™ technology offer the audio fidelity of a Class AB amplifier while providing the power efficiency of a Class D.

Features:

- 60W per channel RMS (120W total) into an 4 ohm load
- Audiophile quality sound with less than 0.01% THD @ 30W
- 1/4" Headphone jack allows the unit to double as a high fidelity headphone amplifier
- Convenient front mounted 3.5 mm input for quick connection of portable audio devices
- Compact extruded aluminum housing with thick black anodized faceplate
- Rear mounted RCA-type input for permanent connection of larger audio devices
- Short circuit, thermal, and overload protection

Front Panel:

1. Power LED

Blue power LED indicates the unit is receiving power and is fully operational.

2. Power / Volume control

This control turns on the unit and adjusts the volume level of the amplifier. When the unit is turned on the power LED will become fully illuminated. To turn the unit off, turn the control fully counter clockwise until it "clicks" to the off position. It is normal for the power LED to slowly dim and then go completely out when the unit is first turned off.

3. Headphone Jack

The DTA-120 also doubles as a headphone amplifier that will drive any headphone easily and delivers colossal sound stage and effortless dynamic range. The 1/4" stereo jack allows connection of larger home and studio-style headphones. An adapter is also provided so that smaller 3.5 mm personnel style headphones can be used.

Note: When headphones are plugged into the headphone jack the speaker output connections are disconnected.

4. 3.5 mm Audio Input

The unit features a convenient front mounted 3.5 mm stereo input for quick connection of iPods, MP3 players, and other portable audio devices. A 6" 3.5 mm coiled cable that stretches to 12" is included.

Note: When a device is plugged into the 3.5 mm audio input the rear mounted RCA input jacks are disconnected. This allows the user to permanently connect a device to the rear RCA audio inputs and switch to a portable device by simply plugging into the front mounted input.

Rear Panel:

5. Power Connection

The DTA-120 operates on 24VDC and MUST be used with a power supply that can provide at least 5A. A world compatible (100V-240V) switch mode power supply is included with the unit and is supplied with a U.S.A. style cord. To operate in other countries an appropriate power cord will need to be purchased. The power connection on the unit is a 2.5 mm x 5.5 mm jack with center pin being positive. **Note:** If an inappropriate power supply is used and the unit is damaged, the warranty will be voided.

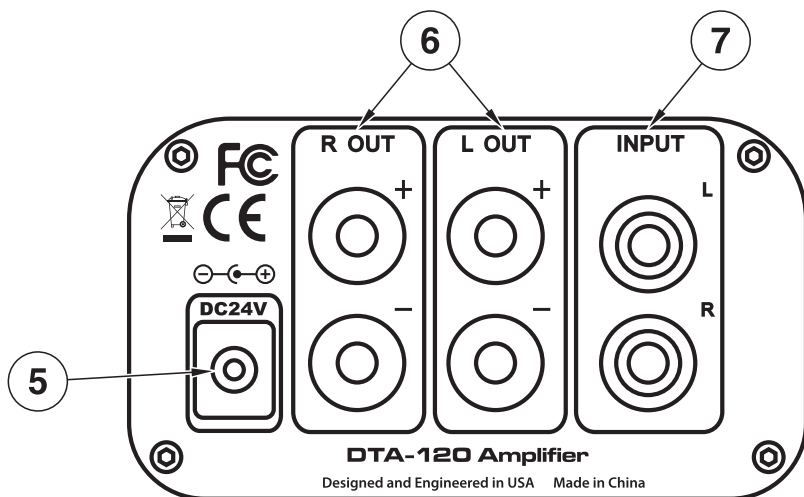
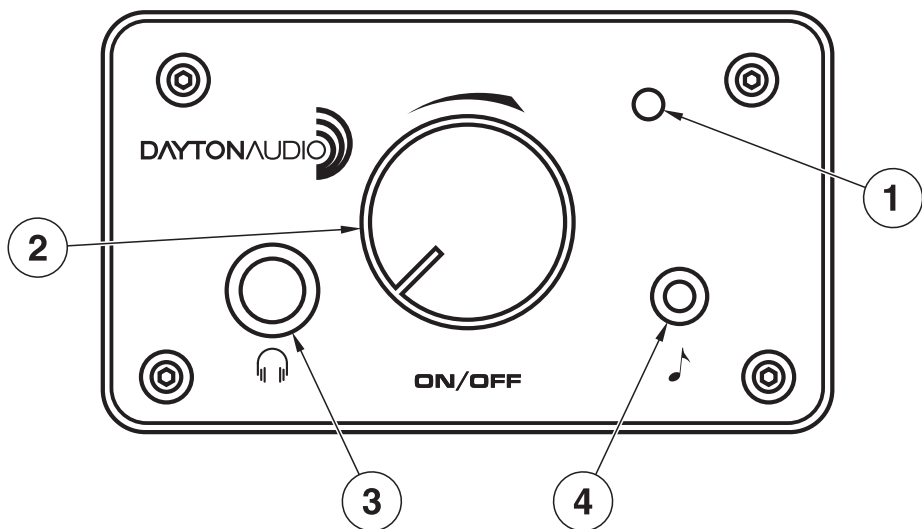
6. Speaker Outputs

The speaker output connections utilize high current binding posts that are spaced on 3/4" centers and are compatible with standard double banana plug connectors (sold separately). The connections are color coded for easy polarity identification. High quality screw-on banana plugs that will accept 10AWG-18AWG wire are included.

7. RCA-Type Audio Input

RCA-type line level input for permanent connection of larger devices such as CD players, PCs, and DVD players. An RCA to 3.5 mm adapter is also provided for added connection flexibility. **Note:** When a device is plugged into the front mounted 3.5 mm input, the RCA input jacks are disconnected.

Front Panel



Rear Panel

Specifications:

Power Output:	60 watts RMS x 2 into 4 ohm
Total Harmonic Distortion:	<0.1% @ 1W per channel <10% @ 60W per channel
Minimum Speaker Impedance:	4 ohm
Signal-to-Noise Ratio:	103 dB, A weighted
Input Impedance:	10k ohms (minimum)
Input Sensitivity:	680 mV
Frequency Response:	20-20,000 Hz
Channel Separation:	95 dB
Efficiency:	>85%
Dynamic Range:	>100 dB
Electrical Requirement:	24VDC @ 5A center pin positive
Dimensions:	2" H x 3.375" W x 6.250" D
Weight:	1.0 lbs

Package Contents:

- DTA-120 120W Digital Class T Amplifier
- World compatible 24V@5A switch mode power supply
- 2 sets of screw-type banana plugs for speaker connection
- 3.5 mm to 1/4" headphone adapter
- 3.5 mm to 2 RCA "Y" cable
- 6" coiled 3.5 mm audio input cable

Important Safety Instructions

To reduce the risk of electric shock, do not remove cover. No user serviceable parts inside. Refer servicing to qualified personnel. To reduce the risk of fire and shock do not expose unit to rain or moisture. The unit should be connected to an earth grounded AC electrical socket. The unit should be operated in a well ventilated area. Minimum clearance is 2 inches from the ventilation openings.



WARRANTY COVERAGE

Dayton Audio products are warranted to be free of all defects in material and workmanship for 5 YEARS from the date of purchase from an authorized Dayton Audio dealer. This warranty and all rights provided are limited to the original owner and are non-transferable. Dayton Audio's responsibility is limited to replacement or repair as set forth in this warranty statement.

Should a product require warranty service during this period, Dayton Audio will repair or replace without charge, any part or product proving defective in material or workmanship. All warranty repairs and service must be performed by an authorized Dayton Audio technician or service facility. The use of non-authorized repair services renders this warranty null and void, and any charges relating to non-authorized repair are the responsibility of the product owner.

All expenses related to replacing or repairing a defective part or product under this warranty shall be assumed by Dayton Audio. Dayton Audio reserves the right to replace defective product with a new or factory reconditioned unit.

WARRANTY EXCLUSIONS

1. This warranty does not cover product failure or damage resulting from misuse, abuse, neglect, accidents, alterations, standard environmental deterioration, natural disasters, or improper use and/or installation.
2. This warranty does not cover cosmetic damage due to misuse or neglect. This includes paint damage, scratches, cracks or other superficial marks related to improper use.
3. Failures arising from attempted servicing of a non-authorized Dayton Audio repair facility or technician are excluded from this warranty.

LIMITATION OF DAMAGES

In no event shall Dayton Audio be liable for consequential damages for breach of this warranty including installation charges, excessive shipping expenses, property loss or other incidental loss. Some States do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to the buyer.

HOW TO OBTAIN WARRANTY SERVICE

To obtain services under this warranty, the buyer shall contact Dayton Audio's authorized service provider, Parts Express, at 1-800-338-0531 x 780 to obtain a return authorization number (RA#).

The buyer must carefully pack the warranted product along with a copy of the original purchase receipt, the return authorization number (RA#), and a description to the repair facility listed below. Shipping for warranty service is the responsibility of the buyer.

Parts Express
Attn: Dayton Audio Warranty Repairs RA# (please write your RA# here)
705 Pleasant Valley Drive
Springboro, Ohio 45066

NOTICE TO BUYER

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.



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