

## Specifications:

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

Dayton Audio products are warranted free from defects in material and workmanship for **5 years** from date of purchase. **1 year** warranty applies to the following products: powered subwoofers and electronic devices (e.g. subwoofer amplifiers, and plate amplifiers, as well as the Omnimic V2 and DATS loudspeaker testing devices). In the rare case of a product failure, please contact your place of purchase or call our Customer Support Department at (937) 743-8248.

## Warranty Limitations

There are no other warranties, either expressed or implied, that extend the foregoing, and there are no warranties of merchantability or fitness for any particular purpose. Dayton Audio is not responsible for any consequential or inconsequential damage to any other unit or component or the cost for installation or extraction of any component of the audio system, or for the improper use of products. This includes but is not limited to burnt voice coils, overheating, bent frames, holes in the cone, or broken lead wires.

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

**Non-Warranty Service:** If non-warranty service is required, the product may be sent to the Company for repair/replacement, transportation prepaid, by calling (937) 743-8248 for details, complete instructions, and service fee charges.



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# 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.

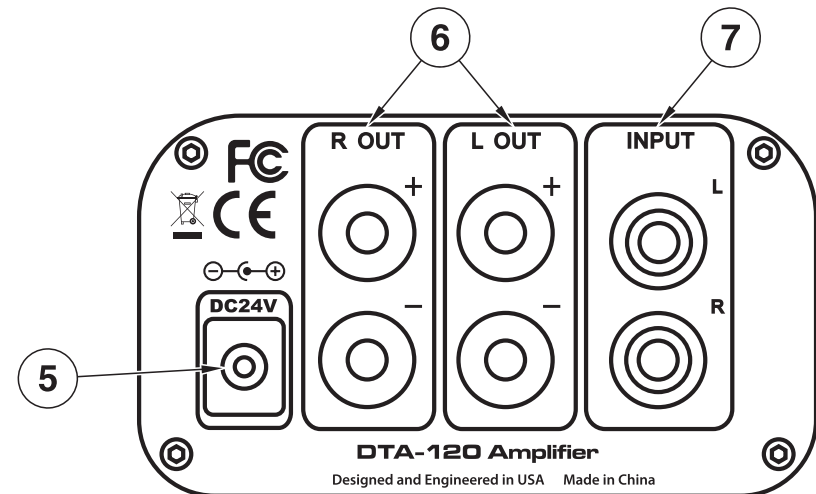
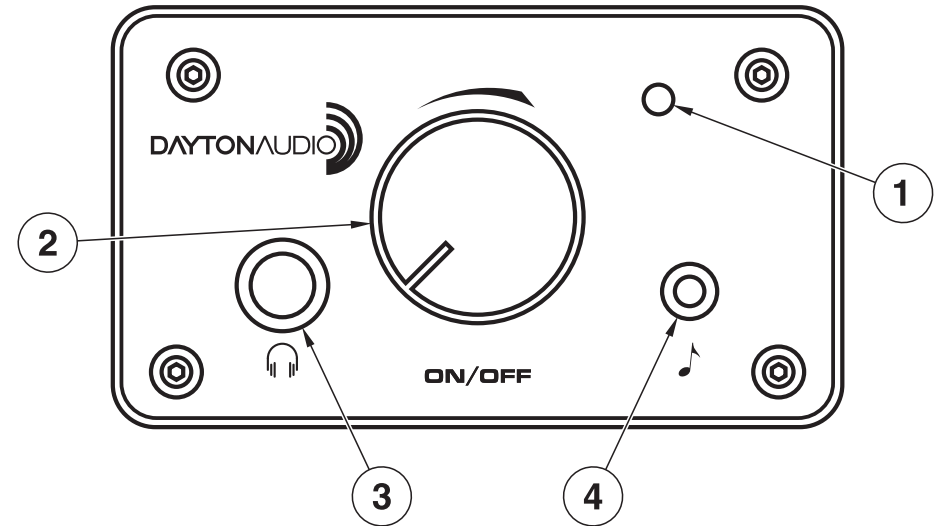
##### 6. Speaker Outputs

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