PHOENIX GOLD

ZP series

PRO AUDIO



FULL CLASS-D
PRO AUDIO AMPLIFIER RANGE

Models:
ZP3000.1 - ZP5000.1 - ZP8000.1

SPECIFICATIONS

- Full Class-D Full Bridge Technology
- High-Quality SMPS Transformers
- Premium Tiffany RCA Connectors
- Included Bass Remote
- Adjustable High-Pass and Low-Pass filters
- Clip LED
- Built in protection LED light status indicator
- Short circuit/thermal and high/low voltage protection

INSTRUCTION MANUAL

INTRODUCTION

The PHOENIX GOLD ZP Full Range Mono Amplifiers are engineered to deliver exceptional power and uncompromising performance in demanding audio systems. Built for everything from high-power subwoofers to midbass and midrange speaker applications, they provide clean, reliable output even under extreme conditions. Whether you're building an SPL competition vehicle or a high-output daily system, the ZP Series delivers the power and control needed for maximum performance.

Connection - Wire Size Chart

Ensure the audio system is turned off before making any connections to the amplifier, speakers, or source unit. Failure to do so could result in permanent damage to the audio system. Ensure the correct gauge cable is used for all connections; consult the cable calculator diagram below for the correct gauge cable for your installation

	CABLE LENGTH															
	0-1 Meter / 0-4 Feet		1-2 Meter / 4- 7 Feet		2-3 Meter / 7-10 Feet		3-4 Meter / 10-13 Feet		4-5 Meter / 13-16 Feet		5-6 Meter / 16-19 Feet		6-7 Meter / 19-22 Feet		7-9 Meter / 22-28 Feet	
TOTAL AMPS	MM2	AWG	MM2	AWG	MM2	AWG	MM2	AWG	MM2	AWG	MM2	AWG	MM2	AWG	MM2	WG
0-20A	4	12	4	12	4	12	4	12	6	10	6	10	6	10	10	8
20-35A	4	12	6	10	6	10	6	10	6	10	10	8	10	8	20	4
35-50A	6	10	6	10	6	10	10	8	10	8	10	8	20	4	20	4
50-65A	10	8	10	8	10	8	10	8	20	4	20	4	20	4	20	4
65-85A	10	8	10	8	10	8	20	4	20	4	20	4	20	4	35	2
85-105A	10	8	20	4	20	4	20	4	20	4	20	4	20	4	35	2
105-125A	20	4	20	4	20	4	20	4	20	4	20	4	35	2	35	2
125-150A	20	4	20	4	20	4	20	4	35	2	35	2	35	2	50	0
150-200A	20	4	20	4	20	4	35	2	35	2	50	0	50	0	50	0
200-250A	35	2	35	2	35	2	50	0	50	0	50	0	50	0	70	2/0
250-300A	50	0	50	0	50	0	50	0	50	0	50	0	70	2/0	70	2/0

If aluminium wire is used, it is recommended to increase the size of the gauges to compensate. The calculation of cable gauge size considers the resistance of terminal connections.

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INSTALLATION INSTRUCTIONS

Professional installation by an authorised PHOENIX GOLD dealer is strongly recommended. If the amplifier is not installed correctly, system performance may be compromised.

If you choose to carry out the installation yourself, please read and follow this manual carefully. Failure to do so may result in damage to the product, your vehicle, and could void the warranty.

Step-by-Step Instructions:
1. Disconnect the battery
Disconnect the negative (-) battery terminal before beginning the installation.

2. Mount the Amplifier
Choose a suitable mounting location. Before drilling or cutting, check carefully to avoid fuel tanks, fuel lines, hydraulic lines, electrical wiring, and other vehicle components.

3. Run the Power Cable
Route a power cable from the battery to the amplifier location. Use a high-quality cable with the correct size for the amplifier's power requirements and cable length (see cable size chart).

4. Install the Fuse
Install a fuse holder on the power cable as close to the battery as possible. Use a fuse rated appropriately for the cable's current capacity.

5. Ground the Amplifier
Connect the ground cable to a clean, unpainted metal surface near the amplifier. Remove any paint or coating to ensure a solid electrical connection.

6. Connect Power and Ground
Connect the ground cable to the amplifier first, followed by the power cable.

7. Connect the Remote Turn-On Wire
Connect the remote turn-on wire from the source unit to the amplifier's REM terminal.

8. Connect the Audio Signal
Connect the RCA cables from the source unit to the amplifier.

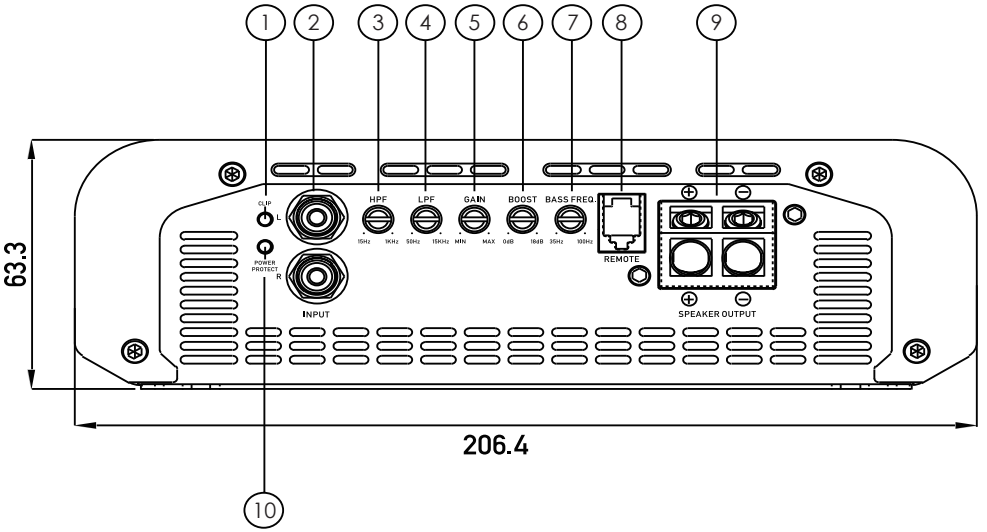
9. Connect the Speakers
Connect the speaker wires to the amplifier outputs, ensuring correct polarity.

10. Power On and Verify Operation
Reconnect the battery. Set the amplifier gain to minimum and turn on the system. Start with the source unit volume low and verify that the amplifier powers up correctly.

11. Adjust Amplifier Settings
Set the gain, crossover, and other amplifier controls as required. Make small adjustments and verify the results.

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ZP3000.1 - ZP5000.1 - ZP8000.1 Connectors



1. CLIP - Lights when the amplifier output exceeds 5% THD.

2. RCA INPUTS - Connect the audio source to the RCA inputs.

3. HPF (High-Pass Filter): Allows only frequencies above the selected crossover point to pass through.

4. LPF (Low-Pass Filter): Allows only frequencies below the selected crossover point to pass through.

5. GAIN - Matches the amplifier's input sensitivity to the source unit's output level.

6. BASS BOOST - Boosts the selected bass frequency.

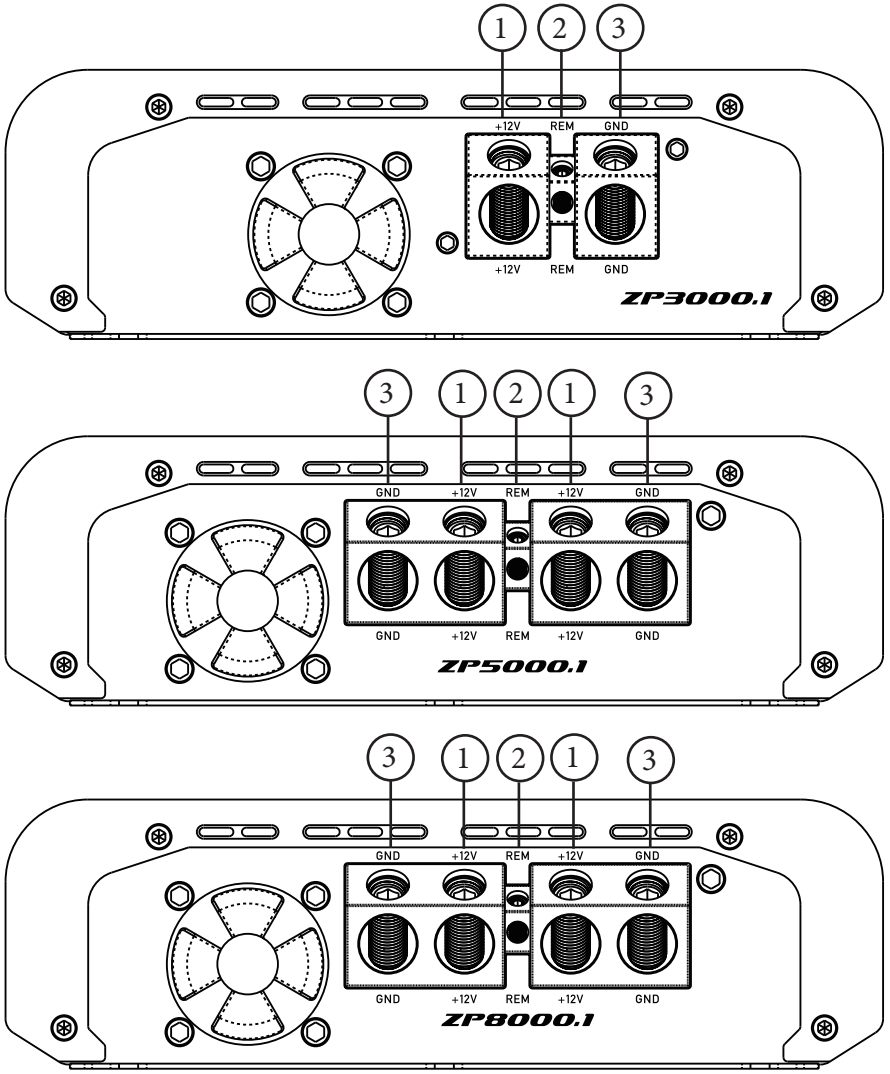
7. BASS FREQUENCY - Selects the center frequency affected by the BASS BOOST control.

8. REMOTE - Connect the included bass remote to adjust the output level.

9. SPEAKER OUTPUT - Connect the amplifier to the speaker(s) or subwoofer(s).

10. POWER Indicator - Lights when the amplifier is powered on.

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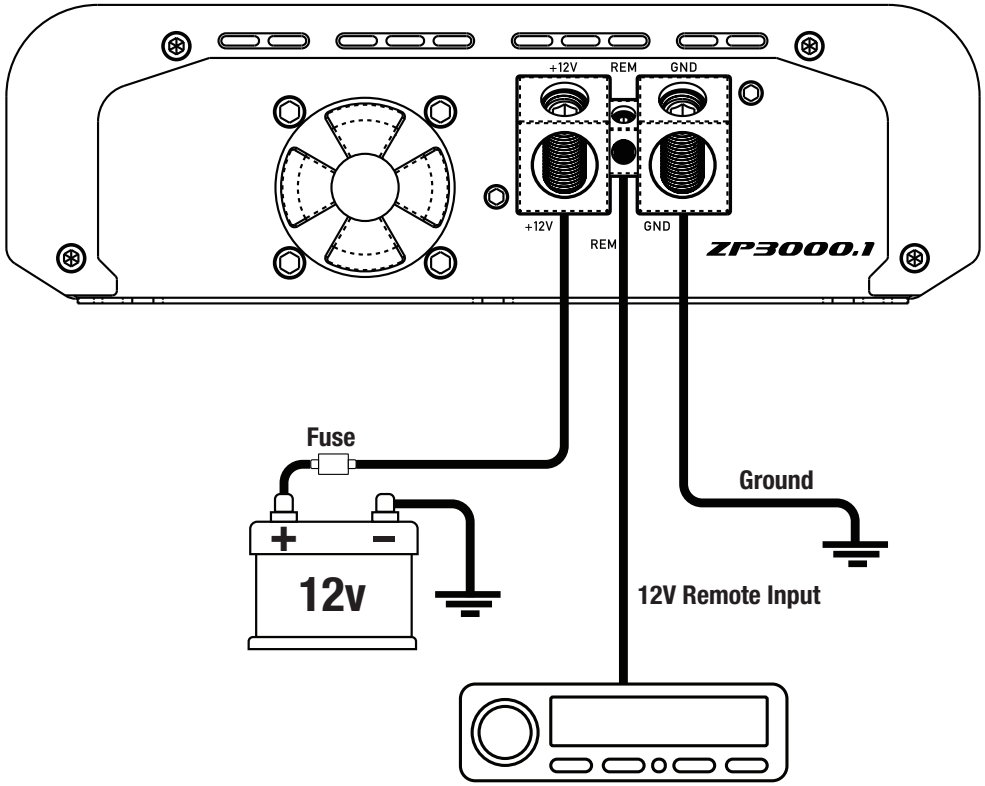
1. +12V - Positive power terminal.

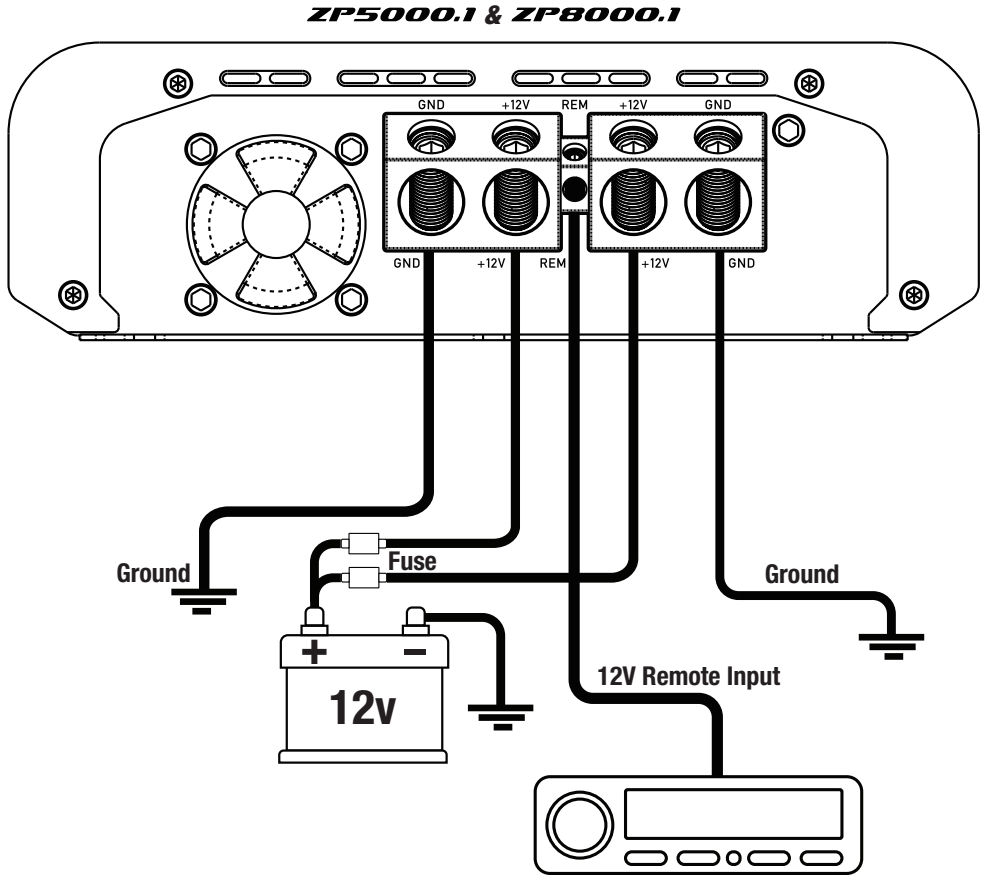
2. REM - The amplifier will start when it receives a 12V signal on the REM input.

3. GND - Negative ground terminal.

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ZP3000.1 - ZP5000.1 - ZP8000.1 Connectors





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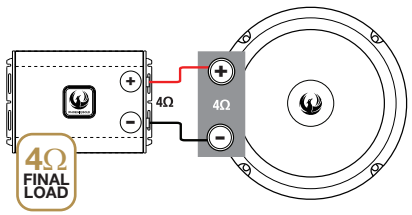
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CONNECTION OPTIONS (ZP3000.1 / ZP5000.1 / ZP8000.1)

1x 4Ω Speaker

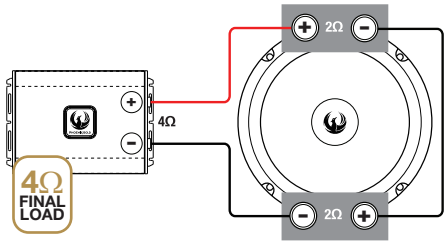


TERMINAL GUIDE

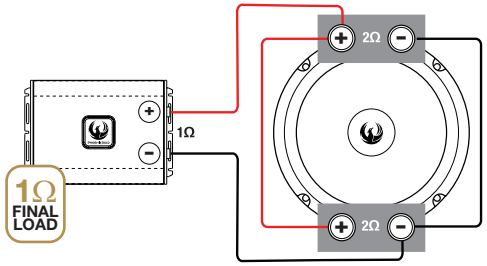
+ POSITIVE (+)

- NEGATIVE (-)

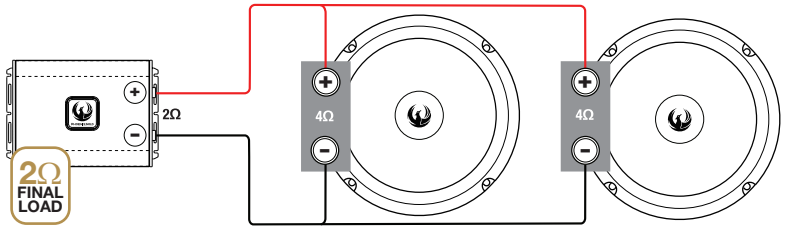
1x Dual 2Ω Speaker - Series



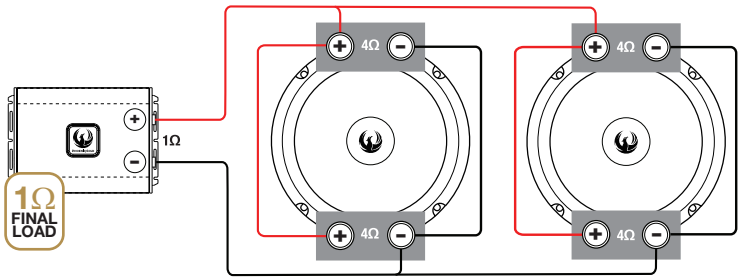
1x Dual 2Ω Speaker - Parallel



2x 4Ω Speakers - Parallel

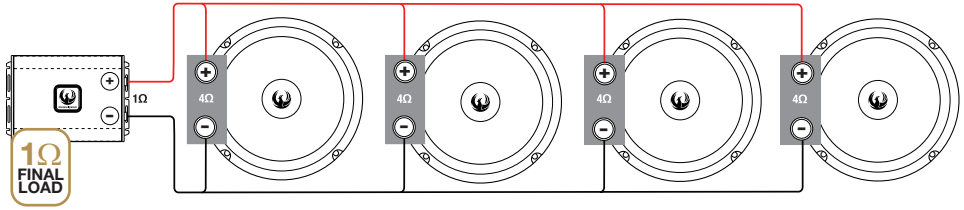


2x Dual 4Ω Speakers - Parallel

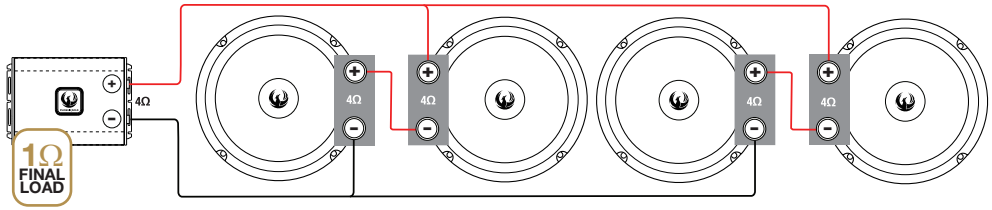


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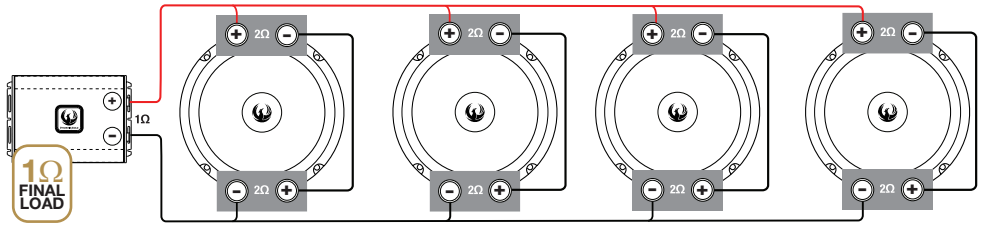
4x 4Ω Speakers - Parallel



4x 4Ω Speakers - Series-Parallel

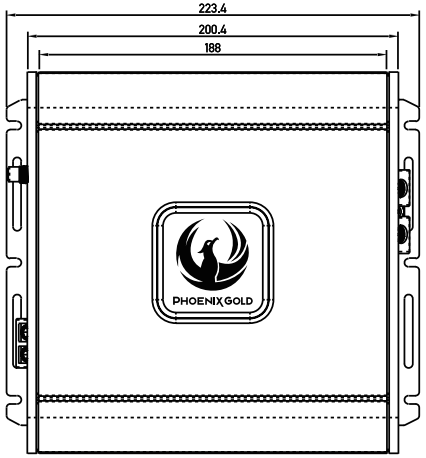


4x Dual 2Ω Speakers - Series Parallel

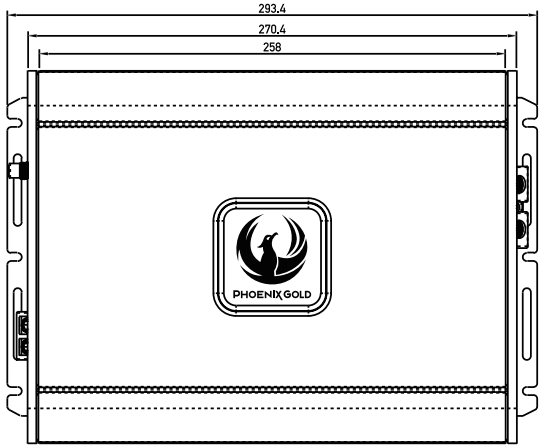


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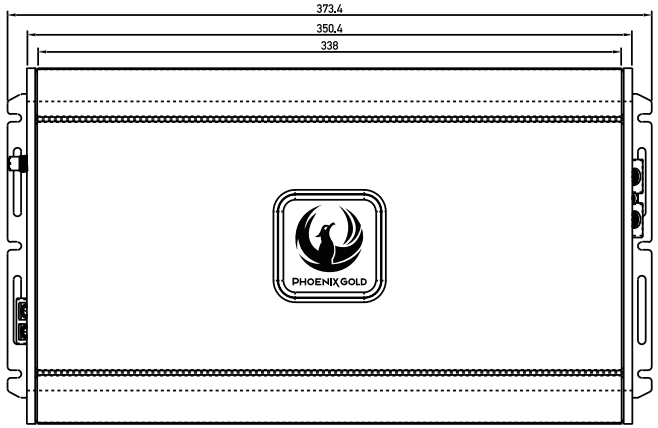
Dimensions (ZP3000.1 / ZP5000.1 / ZP8000.1)



ZP3000.1



ZP5000.1



ZP8000.1

SPECIFICATIONS

Specifications:	ZP3000.1	ZP5000.1	ZP8000.1
Class:	Class D	Class D	Class D
Channels:	1	1	1
Frequency Response:	12Hz – 17kHz	12Hz – 15kHz	12Hz – 15kHz
RMS Power Rating (1Ω):	1 x 3000W	1 x 5000W	1 x 8000W
RMS Power Rating (2Ω):	1 x 2000W	1 x 3200W	1 x 4300W
RMS Power Rating (4Ω):	1 x 1000W	1 x 1700W	1 x 2300W
SNR (Full Power):	-87dB	-85dB	-88dB
Total Harmonic Distortion:	<1%	<1%	<1%
Low-Pass Filter (LPF):	50Hz – 15kHz (12dB/Oct)	50Hz – 15kHz (12dB/Oct)	50Hz – 15kHz (24dB/Oct)
High-Pass Filter (HPF):	15Hz – 1kHz (12dB/Oct)	15Hz – 1kHz (12dB/Oct)	15Hz – 1kHz (24dB/Oct)
Bass Boost:	0 – +18dB	0 – +18dB	0 – +18dB
Bass Boost Frequency:	35Hz – 100Hz	35Hz – 100Hz	35Hz – 100Hz
Input Sensitivity:	0.25V – 4V	0.25V – 4V	0.25V – 4V
Remote:	Yes (Included)	Yes (Included)	Yes (Included)
High-level Input:	Yes	Yes	Yes
Auto Turn-on:	No	No	No
Operating Voltage:	8V – 18V	8V – 18V	9V – 16V
Idle Current:	0.66A	1.7A	1.7A
Current Draw (Max):	290A	427A	723A
Total Efficiency (4Ω):	84%	89%	83%
Power Terminal:	50mm²	2x 50mm²	2 x 50mm²
Speaker Terminal:	20mm²	20mm²	20mm²
Dimensions (LxWxH):	223.4 x 206.4 x 63.3mm	293.4 x 206.4 x 63.3mm	373.4 x 206.4 x 63.3mm
Weight:	2.58 kg	3.38 kg	4.78 kg

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Disclaimer

Always ensure the amplifier is securely attached. Phoenix Gold accepts no responsibility for damage or injury in relation to inappropriate securing of this product.

Phoenix Gold Product Warranty

LIMITED WARRANTY ON AMPLIFIERS

Phoenix Gold warrants this product to be free of defects in materials and workmanship for a period of one (1) year from the original date of purchase. This warranty is not transferable and applies only to the original purchaser from an authorized Phoenix Gold dealer. Should service be necessary under this warranty for any reason due to manufacturing defect or malfunction, Phoenix Gold or it's Country distributor / reseller will (at its discretion) repair or replace the defective product with new or re-manufactured product at no charge. Damage caused by the following is not covered under warranty: accident, misuse, abuse, product modification or neglect, failure to follow installation instructions, unauthorized repair attempts, misrepresentations by the seller. This warranty does not cover incidental or consequential damages and does not cover the cost of removing or reinstalling the unit(s). Cosmetic damage due to accident or normal wear and tear is not covered under warranty.

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