



**12" SUBWOOFER**  
**400W RMS - 1600W MAX OUTPUT**

Models: Z12D4

**FEATURES**

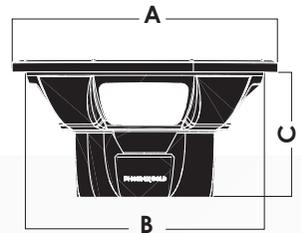
- 2x 4 Ohm Voice Coils
- 40mm Peak to Peak Excursion
- 2" High Temp Copper Voice Coils
- Easy Connect Speaker Terminals
- Black Anodized Aluminium Former
- High Roll Rubber Stitched Surround
- Optimised for Sealed or Vented Enclosures
  - Long Throw Spider Suspension
  - Dual Cone Design

*All specifications are subject to change without notice.*

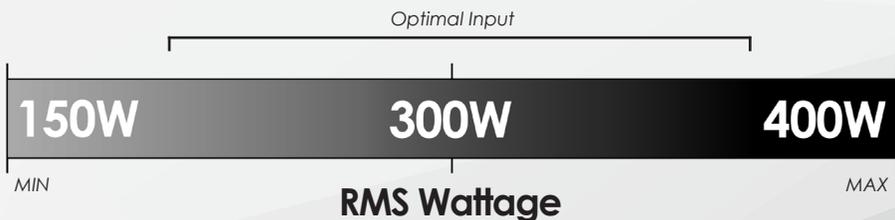


# PHOENIX GOLD

SPECIFICATION	Z12D4
Nominal Impedance (Z)	4 ohms (Dual)
DC Resistance (Re)	1.80 ohms
Resonance Frequency (Fs)	29.138 Hz
Piston Area (Sd)	0.51m <sup>2</sup>
Force Factor (BL)	9.07 Tm
Mechanical Q Factor (Qms)	5.476
Electrical Q Factor (Qes)	0.627
Total Q Factor (Qts)	0.562
Sensitivity 1W/M (SPL)	86.5 dB
Mechanical Compliance (Cms)	193.347 μM/N
Moving Mass (Mms)	154.301 g
Volume Acoustic Compliance (Vas)	72.739 Ltrs
Nominal Power (Pe)	400 Watts
Peak Power	1600 Watts
Voice Coil Diameter	2in/51mm
Overall Diameter (A)	12.50in/317.50mm
Cut Out Diameter (B)	11.29in/286.68mm
Mounting Depth (C)	6.26in/159mm



## Phoenix Gold Recommended Amplifier Wattage (RMS)



## Enclosure Recommendations

Speaker and port displacement are already taken into account for recommended enclosures

### Sealed Enclosure - Punchy Bass

Net Internal Volume	28 Ltr
Frequency (FSC)	57Hz

### Sealed Enclosure - Hi-Fi Bass

Net Internal Volume	35 Ltr
Frequency (FSC)	52Hz

### Ported Enclosure - Punchy Bass

Net Internal Volume	50 Ltr
Frequency (FB)	42Hz
Slot Port Area	140cm <sup>2</sup>
Slot Port Length	35cm
Round Port Diameter	4 inch (10.16cm)
Round Port Length	20cm

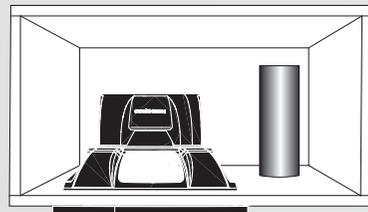
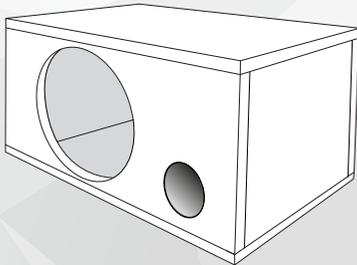
### Ported Enclosure - Hi-Fi Bass

Net Internal Volume	60 Ltr
Frequency (FB)	38Hz
Slot Port Area	140cm <sup>2</sup>
Slot Port Length	38cm
Round Port Diameter	4 inch (10.16cm)
Round Port Length	21cm

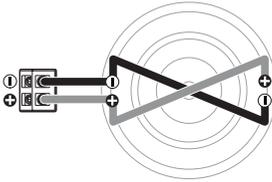
### Twin Box Enclosure - Punchy Bass

Net Internal Volume	120 Ltr
Frequency (FB)	42Hz
Slot Port Area	350cm <sup>2</sup>
Slot Port Length	34cm
Round Port Diameter	2x 4 inch (10.16cm)
Round Port Length	16cm

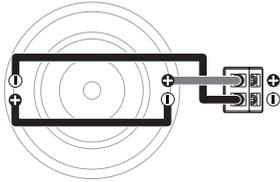
Round Port Example



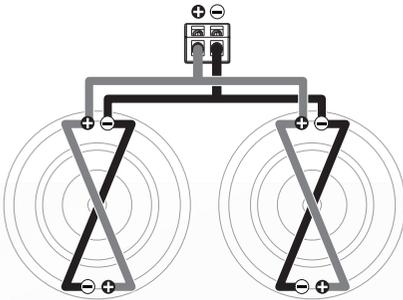
## SINGLE SUBWOOFER SYSTEM WIRED IN PARALLEL



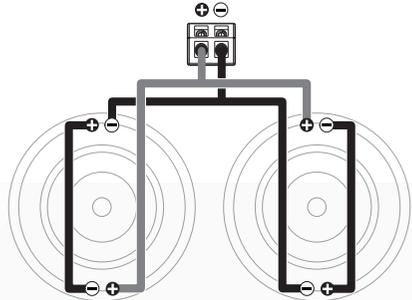
## SINGLE SUBWOOFER SYSTEM WIRED IN SERIES



## DUAL SUBWOOFER SYSTEM WIRED IN PARALLEL



## DUAL SUBWOOFER SYSTEM WIRED IN SERIES - PARALLEL



### Phoenix Gold Product Warranty

#### LIMITED WARRANTY ON SUBWOOFERS

Phoenix Gold warrants this product to be free of defects in materials and workmanship for a period of one (1) years from the original date of purchase. This warranty is not transferable and applies only to the original purchaser from an authorized Phoenix Gold dealer in the United States of America only. Should service be necessary under this warranty for any reason due to manufacturing defect or malfunction, Phoenix Gold will (at its discretion), repair or replace the defective product with new or remanufactured product at no charge. Damage caused by the following is not covered under warranty: accident, misuse, abuse, burnt voice coils, used as door stops, salad bowls or hats, 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.

#### INTERNATIONAL WARRANTIES:

Products purchased outside the United States of America are covered only by that country's Authorized Phoenix Gold reseller and not by Phoenix Gold. Consumers needing service or warranty information for these products must contact that country's reseller for information.