

SIGNATURE EDITION

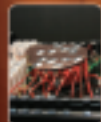
- Mono Subwoofer Amplifiers -

4000 SE



1 Channel @ 4 ohms- 1200 Watts
 1 Channel @ 2 ohms- 2300 Watts
 1 Channel @ 1 ohms- 4000 Watts
 Frequency Response- 4Hz - 230Hz
 X-over Range- 30Hz - 230Hz
 Bass Boost- 20Hz - 80Hz +15dB
 S/N Ratio- >80dB
 Input Sensitivity(Low)- 200mV - 4V
 Input Sensitivity(Bal)- 400mV - 8V
 Max Current Draw- 450A
 Idle Current- 4.0A
 Size- 31.5" (L)
 10.25" (W)
 3.4" (h)

A gigantic 3-stage bank of exclusive self branded ultra low ESR 105 degree celsius high voltage power caps increase power reserves for each of the amplifiers 6 power supply voltage rails.



Capable of over 200 volts, this critical handmade component uses symmetrical primary windings coupled with a high current, solid core copper buss system which allows for increased stability and optimal efficiency of the amplifier's massive power supply.

Any high output amplifier will generate large amounts of heat. To combat this issue the 4000SE uses its microprocessor to control two large 4" Hi-Speed fans located within the depths of the amplifier which greatly reduces the effects of physical fan noise while the forced induction style system keeps the amplifier cool while meeting even the highest of listening demands..



Keeping your power clean is a challenge in any kind of high output power application. By using massive, combined output inductors, unwanted A/C ripple is eliminated from the power supply, dramatically increasing the amplifiers stability while significantly lowering the amplifiers THD and increasing the S/N ratio of the output signal.



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SIGNATURE EDITION

- 2 Channel Amplifiers -

2075 SE



2 Channels @ 4 ohms- 100 Watts
 2 Channels @ 2 ohms- 175 Watts
 1 Channel @ 1 ohms- 350 Watts
 Frequency Response- 4Hz - 50kHz
 X-Over Range- 30Hz - 550Hz
 (x10 300Hz - 5500Hz)
 Bass Boost- 0 - 15dB @ 20Hz - 80Hz
 Input Sensitivity(Low)- .3V - 4V
 Input Sensitivity(Bal)- .4V - 8V
 Max Current Draw- 70A @ 571 Watts 20% THD
 Idle Current- 1.14A
 Size- 13.0" (L)
 8.0" (W)
 2.5" (H)

2150 SE



2 Channels @ 4 ohms- 150 Watts
 2 Channels @ 2 ohms- 300 Watts
 1 Channel @ 4 ohms- 600 Watts
 Frequency Response- 7Hz - 50kHz
 X-Over Range- 30Hz - 550Hz
 (x10 300Hz - 5500Hz)
 Bass Boost- 0 - 15dB @ 20Hz - 80z
 Input Sensitivity(Low)- .3V - 4V
 Input Sensitivity(Bal)- .4 V - 8V
 Max Current Draw- 125A @ 1060 Watts 20% THD
 Idle Current- 1.14A
 Size- 15.5" (L)
 8.0" (W)
 2.5" (H)

2300 SE



2 Channels @ 4 ohms- 330 Watts
 2 Channels @ 2 ohms- 660 Watts
 1 Channel @ 4 ohms- 1300 Watts
 Frequency Response- 4Hz - 100kHz
 X-Over Range- 30Hz - 550kHz
 (x10 300Hz - 5500Hz)
 Bass Boost- 0 - 15dB @ 20Hz - 80Hz
 Input Sensitivity(Low)- .3V - 4V
 Input Sensitivity(Bal)- .4V - 8V
 Max Current Draw- 222A @ 1800 Watts 10% THD
 Idle- 1.14
 Size- 19.5" (L)
 8.0" (W)
 2.5" (H)

SE Comp Mods (Audiophile Upgrades)

Reference Audio based modifications available for all NEW SE4100's, SE4200's, SE2150's and SE2300's.

- Precision matched parts updates on balanced input stage
 - Hybrid Class A & Class A/B ultra hi-biased output design
 - Custom high frequency power supply revision
 - Detailed channel speaker specific setup
 - and more.....
- LIMITATIONS-----
- 5-7 Business day lead time on all orders
 - Mods available on "NEW" SE amplifier orders only
 - Comp mods are designed specifically to benefit from full use of SE RJ45 Balance inputs
 - Comp Mod applied amps do not qualify for over the counter exchange and will be repaired

SIGNATURE EDITION

- 4 Channel Amplifiers -

4100 SE



4 Channels @ 4 ohms- 65 Watts
 4 Channels @ 2 ohms- 110 Watts
 2 Channels @ 4 ohms- 220 Watts
 2 Channels @ 2 ohms- 145 Watts
 Frequency Response- 4Hz - 100kHz
 X-Over Range- 30Hz - 550Hz (x10 300Hz - 5500Hz)
 Bass Boost- 0 - 15 dB @ 20Hz - 80Hz
 S/N Ratio- >93dB
 Input Sensitivity(Low)- .3V - 4V
 Input Sensitivity(Bal)- .6V - 8V
 Max Current Draw- 79A @ 540 Watts 10% THD
 Idle Current- 3.0A
 Size- 15.5" (L)
 8.0" (W)
 2.5" (H)

4200 SE



4 Channels @ 4 ohms- 110 Watts
 4 Channels @ 2 ohms- 200 Watts
 2 Channels @ 4 ohms- 400 Watts
 2 Channels @ 2 ohms- 400 Watts
 Frequency Response- 4Hz - 100kHz
 X-Over Range- 30Hz - 550kHz (x10 330Hz - 5500kHz)
 Bass Boost- 0 - 15 dB @ 20Hz - 80Hz
 S/N Ratio- >90dB
 Input Sensitivity(Low)- .3V - 4V
 Input Sensitivity(Bal)- .4V - 8V
 Max Current Draw- 222A @ 1600 Watts 10% THD
 Idle Current- 2.3A
 Size- 19.5" (L)
 8.0" (W)
 2.5" (H)



AMPLIFIERS

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KAR SERIES



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KAR SERIES MINI AMPLIFIERS

KS125.2 MINI_{BX}

Power output RMS @ 4 ohms 2 X 70 watts
 Power output RMS @ 2 ohms 2 X 125 watts
 Power output RMS @ 4 ohm 1 X 250 watts
 THD <.05% @ 4 ohms
 S/N Ratio (A wtg.) >111dB
 Bass Boost +15dB@45Hz
 Crossover (Butterworth) 55Hz-550Hz 12dB
 Size 8 1/4"(L) X 4 5/8"(W) X 1 5/8"(H)



BX2 is a bass frequency extension technology that provides perceived bass frequency response below the low frequency cut off in an audio system.

BX2 uses the principle of the missing fundamental, which creates the sensation of low frequencies by generating a carefully calculated series of harmonics designed to simulate the auditory experience in the human ear caused by the missing fundamental pitch.

These harmonics extend the perceived frequency response up to 1.5 octaves below the speaker cutoff frequency (f3) without perceived distortion, increased peak power consumption or peak speaker excursion.

BX2 technology allows the system user to experience dramatically improved levels of system performance, sound quality and improved low frequency response by:

- Increasing low frequency output and performance without causing the speakers to perform outside their physical design limitations.
- Decreasing power consumption during low frequency reproduction up to 75%.
- Allows small format speakers to reproduce low frequencies traditionally designed for larger speakers.

MINI The Design



• Adjustable Butterworth crossovers and independent gain controls allow greater channel signal separation and gives the user total tuning control over the system.



• Custom wound output inductors help produce clean reliable power and eliminate unwanted AC ripple while increasing the amplifier's reliability and stability.



• A single integrated high output mini fan keeps the amplifier cool even during periods of highest demand, allowing for extended run times even in high temperature climates or enclosed mounting applications

KAR SERIES MINI AMPLIFIERS

KS125.4 MINI

Power output RMS @ 4 ohms 4 X 75 watts
 Power output RMS @ 2 ohms 4 X 125 watts
 Power output RMS @ 4 ohm 2 X 250 watts
 THD <.05% @ 4 ohms
 S/N Ratio (A wtg.) >109dB
 Bass Boost +15dB@45Hz
 Crossover (Butterworth) 40Hz-500Hz 12dB
 Size 11 5/8"(L) X 5 1/8"(W) X 1 3/4"(H)



KS500.1 MINI

Power output RMS @ 4 ohms 1 X 300 watts
 Power output RMS @ 2 ohms 1 X 500 watts
 THD <.05%
 S/N Ratio (A wtg.) >102dB
 Bass Boost +15dB@45Hz
 Crossover (Butterworth) 30Hz-200Hz 24dB
 Size 11 5/8"(L) X 5 1/8"(W) X 1 3/4"(H)



The KS 125.4 mini uses a Patent Pending Auto Sense Turn-on circuit that offers a significant improvement in reliability. No more will the amp unexpectedly turn off in the middle of a song. ARC Audio's new design detects the BTL IC (chip amp) used in the vast majority of stock head units and amplifiers.

The preamp stage uses VDrive to increase the output stage efficiency. By using a higher voltage for the preamp drives we overcome the internal loss of the transistors making the channel operate like the ideal design we see on paper.

Fully balanced "HIGH level" RCA inputs will accept speaker input from most head units to improve OEM integration. (KS125.4 & 125.2 Mini's Only)

Stereo gain controls allow perfect level matching of every output.

Speed controlled fan cooling inside the amplifier consistently cools the chassis, dramatically extending the running time.

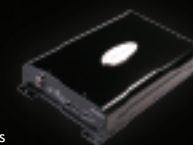
High efficiency Full Range 2 stage Class H power supply delivers Class A/B sound with the efficiency and thermal performance of a Class D. Designed in house by Robert Zeff and the talented staff at Nikola engineering.



KAR SERIES AMPLIFIERS

KS300.2

Power output RMS @ 4 ohms 2 X 180 watts
 Power output RMS @ 2 ohms 2 X 350 watts
 Power output RMS @ 4 ohms Bridged 1 X 700 watts
 Transient Distortion (100W) <.01% @ 4ohms
 Signal to Noise Ratio >98dB
 Bass Boost +18dB@45Hz
 Crossover (Butterworth) 55Hz-5.5kHz variable 12dB
 Size 11 1/4"(L) X 8.0"(W) X 2 3/8"(H)



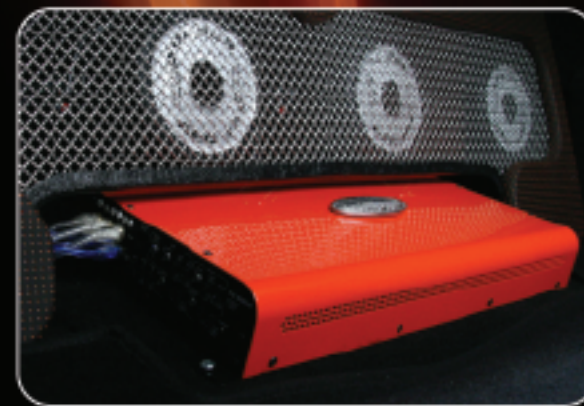
KS300.4

Power output RMS @ 4 ohms 4 X 90 watts
 Power output RMS @ 2 ohms 4 X 175 watts
 Power output RMS @ 4 ohms Bridged 2 X 350 watts
 Transient Distortion (100W) <.02% @ 4ohms
 Signal to Noise Ratio >95dB
 Bass Boost +18dB@45Hz
 Crossover (Butterworth) 55Hz-5.5kHz variable 12dB
 Size 11 1/4"(L) X 8.0"(W) X 2 3/8"(H)



KS900.6

Power output RMS @ 4 ohms 4 X 60 watts
 Power output RMS @ 2 ohms 4 X 100 watts
 Power output RMS @ 4 ohms (Sub) 2 X 155 watts
 Power output Bridged @ 4 ohms 2 X 120 watts
 Power output Bridged @ 4 ohms (Sub) 1 X 550 watts
 Transient Distortion (100W) <.01% @ 4ohms
 Signal to Noise Ratio >77dB
 Bass Boost +15dB@45Hz
 Crossover (Butterworth) 55Hz-5.5kHz var- 12dB
 Size 19 1/2"(L) X 8.0"(W) X 2 3/8"(H)



-For More Product Information Go To-
WWW.ARCAUDIO.COM



KAR SERIES AMPLIFIERS

KS 600.2

Power output RMS @ 4 ohms 2 X 400 watts
 Power output RMS @ 2 ohms 2 X 600 watts
 Power output RMS @ 4 ohm 1 X 1200 watts
 Transient Distortion (400W) <.05% @ 4 ohms
 S/N Ratio (A wtg.) >112dB
 Bass Boost +15dB@10-125Hz
 Crossover (Butterworth) 30Hz-250Hz variable 24dB
 Size 15 1/2"(L) X 8.0"(W) X 2 3/8"(H)



KS 1200.1

Power output RMS @ 4 ohms 1 X 850 watts
 Power output RMS @ 2 ohms 1 X 1200 watts
 Power output RMS @ 1 ohm 1 X 1000 watts
 Transient Distortion (400W) <.05% @ 4 ohms
 S/N Ratio (A wtg.) >112dB
 Bass Boost +15dB@10-125Hz
 Crossover (Butterworth) 30Hz-250Hz variable 24dB
 Size 15 1/2"(L) X 8.0"(W) X 2 3/8"(H)



KS 2500.1 ***NEW FOR 2012***

Power output RMS @ 4 ohms 1 X 750 watts
 Power output RMS @ 2 ohms 1 X 1400 watts
 Power output RMS @ 1 ohm 1 X 2500 watts
 Transient Distortion <.05% @ 4 ohms
 S/N Ratio (A wtg.) >103dB
 Bass Boost +15dB@10-125Hz
 Crossover (Butterworth) 30Hz-250Hz variable 24dB
 Size 21 1/2"(L) X 8.0"(W) X 2 3/8"(H)



KS The Design



• Dedicated hand wound output inductors supply all KS amps with clean, stable, dedicated power to each of the amplifier's main sound producing components.



• An internally mounted hi-flow fan creates forced induction cooling to create optimum levels of thermal dissipation allowing for maximum performance even during extreme conditions and listening demands.



• Flashable microprocessor technology monitors all aspects of the amplifier's performance increasing the stability and long term performance of your amplifier