

AJ SERIES NON STOP YOU

AJ 1000 , AJ 2000, AJ 3000, AJ 4000 & AJ 8000 STEREO POWER AMPLIFIER WITH DISPLAY

- AJ 8000: 2x2300watts into 4Ohms; 4600Watts into 8Ohms (bridge mode).
- AJ 4000: 2x1200watts into 4Ohms; 2400Watts into 8Ohms (bridge mode).
- AJ 3000: 2x800watts into 4Ohms; 1600Watts into 8Ohms (bridge mode).
- AJ 2000: 2x600watts into 4Ohms; 1200Watts into 8Ohms (bridge mode).
- AJ 1000: 2x375watts into 4Ohms; 750Watts into 8Ohms (bridge mode).
- Precise Power, Signal, Clip LEDs & Display LCD to monitor performance.
- Neutrik XLR and 1/4" TRS input connectors for compatibility with any source
- Neutrik speakon and "touch-proof" binding posts support most speaker wiring system.
- Selectable Low-frequency filters (30Hz) remove distracting infra-sound frequencies.
- Independent limiters per channel offer reliable protection against overload and distortion.
- High-current toroidal transformer for ultra high transient response and absolute reliability.
- Ultra reliable Onsemi power transistors.
- Independent DC and thermal protection on each channel automatically protects amplifier and speakers without shutting down the show.
- "Back to front" ventilation system including air filters for reliable operation.
- "Built like a tank" impact resistant, high strength rear ear with aluminum front panel.
- High quality components and exceptionally rugged construction ensure long life.
- Works perfect even at low voltage "Make for India"
- Conceived and Designed by AERONS INDIA, India.



www.paequipments.com



The AJ 1000, AJ 2000, AJ 3000, AJ 4000 & AJ 8000 have everything DJ's & Musicians requires. They need excellent sound quality, road-worthy toughness and reliability, low noise operation and incredible power. With 1000, 2000, 3000, 4000 & 8000 Watts respectively, the AJ 1000, AJ 2000, AJ 3000, AJ 4000 & AJ 8000 are perfect for small, medium & large sized club gigs, mobile PA systems, Holy services or public space.

Everything you need, nothing you don't

The uber simple front panel controls with LCD display of these amplifier gives you all of your sound's vital signs at a glance. After flipping the MAIN switch, the POWER LED & DISPLAY LCD will light when amplifier is ready for action. Both channels have independent gain controls as well as clip LEDs that indicate when signal distorted and you need to reduce gain. there are also SIGNAL LEDs that light up when a signal is present at the input.

The LCD display can show the info of working amp, like working mode, temperature and protection info, etc.

Panel Discussion

A panel of switches found on the back panel offers an array of cool options to apply to both channels of AJ series amplifier. The Clip Limiter lets you get even more out of the amplifier without overdriving either it or your speaker system. Built-in circuitry automatically senses when the AJ series amplifier is being overdriven into "clipping" and then momentarily reduce the input level to avoid clipping distortion. This all happens in a few thousandths of a second, so its an inaudible way of avoiding audible clipping distortion. Of course you can turn the Limiter off if you need full control of amplifier.

Ultra low frequency sounds (infrasonics) are caused by rickety stage vibrations, mic thumps and wind noise. While technically inaudible, they can cause huge drain on amplifier power, potential damage to your speakers and a sludgy sound in the audible bass range. AJ series features a defeatable Low Cut filter that chops off unwanted frequencies below 30Hz (depending of your selection of Low Cut).

The same panel contains the switches that allow you to use amplifier in Stereo, Parallel or Bridge mode (mono). In AJ series you can connect other amplifier by taking signal out from one amplifier and connect to other.



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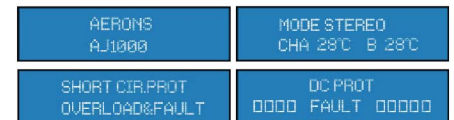
These amplifier have guts

These are plenty of awesome features on the appearance of AJ series, but there is also a team of cool components on the inside to do the job right. They comes loaded with famously reliable Onsemi power transistors as well as high-current toroidal transformer for ultra high transient response and further reliability even at low voltage. Independent DC and thermal overload protection on each channel automatically protects the amplifier and speakers from any show-stopping meltdowns. There are no need for fuses, giving you one fewer potential mid-gig headache.

- Special KCL short circuit protection. When the output is short circuit, it can mute the input signal and switch off the relay. At the same time, it locks the amp by circuit. You need to switch off the amp and then switch on again to restart the amp. KCL short circuit protection can make sure of the reliability of the whole sound system..
- Perfect SL input overload limiter protect. SL is working with sound dynamic. Different frequencies and temperature, SL is working differently to make sure of the protection of amps and speakers, and the nice sound dynamic. You'll never hear distortion. And it can protect the loudspeakers very well.
- The current inrush protect is 15A and very sensitive. This can protect the amp very well.
- The DC protect is $\pm 1.5V$. This can protect your loudspeakers effectively.
- There's thermal switch inside the transformer. Upon 110 degree, the thermal switch will be switched off to protect. This can keep the transformer from becoming too hot.

- It has soft start up protect. This can keep the amp from the break of high current inrush.
- Special CKLD sound dynamic processing circuit: 100ms limiter delay, plus 8V limiter and accurate DC protection value. Different frequency makes the different delay value. This CKLD can make the best sound dynamic with electric feel and peak power.
- We do not make the transformer with too much rest power, but we increase the capacitance of the capacitors to ensure very nice performance when it meets sound dynamic.
- The slew rate is more than $25V/\mu s$. Again, this ensures very nice sound. Even for the most fast and strongest music signal. It can deliver well without losing any signal.
- Special TAP clip limiter circuit
This circuit can work independent of the impedance load and the frequencies. The limiter range is much wider and smoother. Even with much stronger music signal, there is no clipping. This can effectively protect the whole sound system.
- Special HP crossover circuit design
This circuit design is built with 24dB/oct Link with Riley filters. They have the best impulse and additional response, while the total power consumption is much lower.
- The crossover frequency is 120Hz, which fits into the most subwoofer and satellite speaker systems.
- The power design can match with the speaker very well, easy for you to build up a sound system.
- The front ear is 3mm thick, very strong. The back ear is especially designed for your easy usage. It provides great advantage for the installation of the amp to the fly case.

- Simple LCD in the front panel. LCD will show the info like temperature, working mode, protection information, etc. This gives customers more technology feeling.

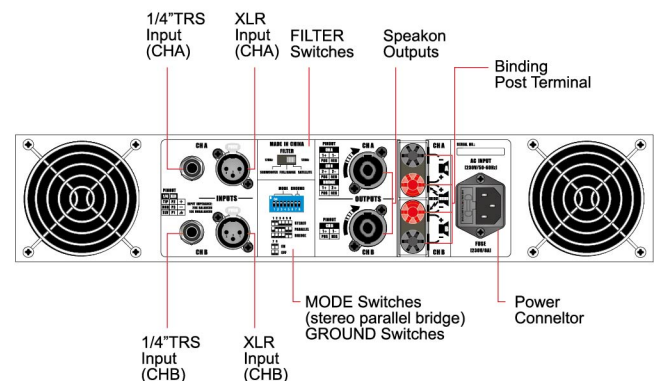
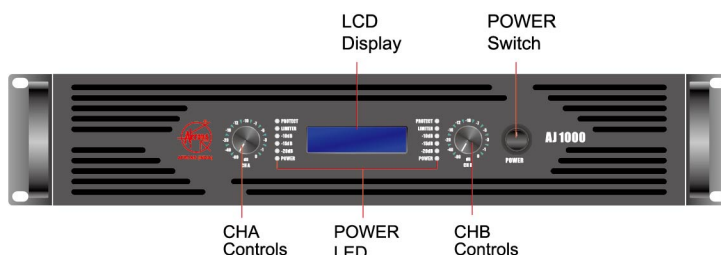


The AJ series have both XLR and 1/4" TRS inputs. Even the outputs are totally flexible, consisting of Speakon compatible output and five way binding posts. Whether you are dealing with bare wire or boutique audiophile cabling, the AJ series are right always.

The exhaust fan, visible on the rear panel, is the final stage of an internal back-to-front cooling system that keeps these amplifier working in the mild temperatures they love, even through period of extended use. Finally, an impact resistant combination of steel and aluminium rack mount chassis help these workhorses stand up all the rigors of the road.

Knock-out punch

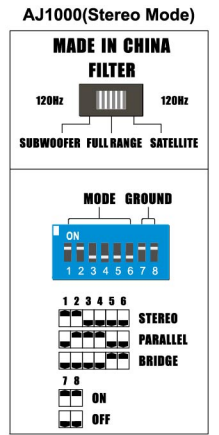
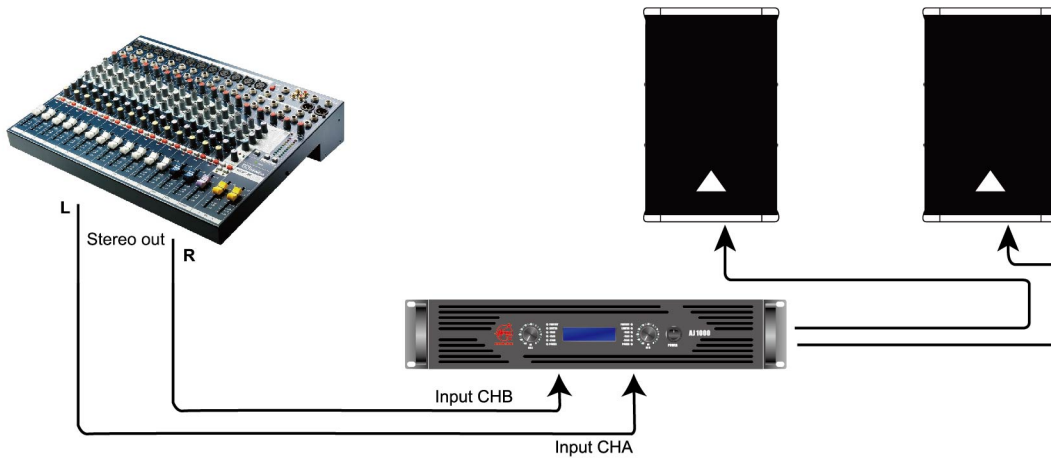
it takes huge pulse of energy (current and voltage) to propel a woofer cone come out fast enough to match a bass beat. That's called Transient response and it's the holy grail of amplifier designers. By carefully selecting transistors with extremely high slew rates and optimizing other proprietary parts of our circuitry, our amps are able to react instantly to even the most demanding electronic bass impulses. If the woofers in your PA system can keep up, your audience will hear a tighter, crisper, more natural sound.



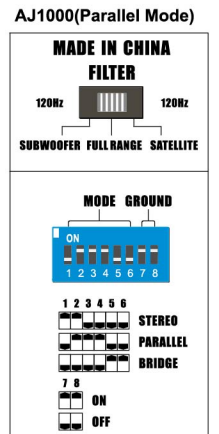
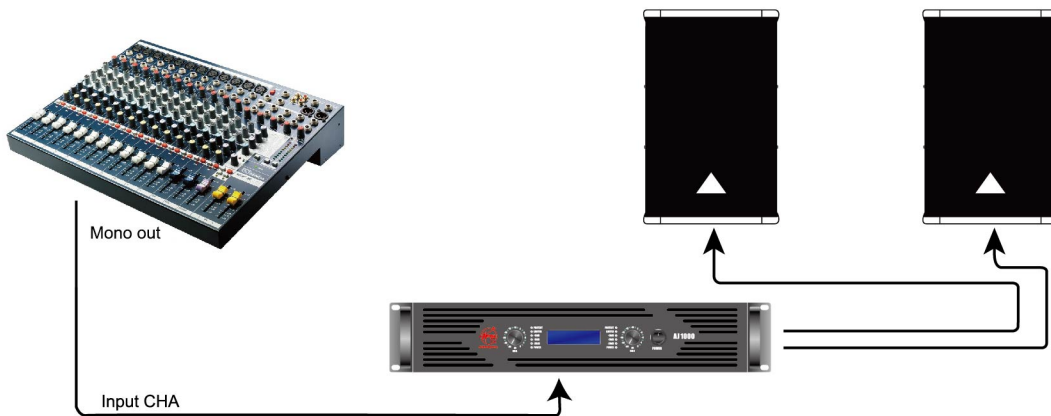
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Stereo Mode



Parallel Mode



Bi-Amp Mode with Subwoofer



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SPECIFICATIONS

Rated Power (1 KHz, THD+N=0.1%)

AJ1000	
8Ω stereo	2×250W
4Ω stereo	2×375W
8Ω bridge	750W

AJ2000	
8Ω stereo	2×400W
4Ω stereo	2×600W
8Ω bridge	1200W

AJ3000	
8Ω stereo	2×500W
4Ω stereo	2×800W
8Ω bridge	1600W

AJ4000	
8Ω stereo	2×800W
4Ω stereo	2×1200W
8Ω bridge	2400W

AJ8000	
8Ω stereo	2×1500W
4Ω stereo	2×2300W
8Ω bridge	4600W

Crossover

AJ1000/AJ2000/AJ3000/AJ4000	
High pass	120Hz
Low pass	120Hz
Low out	/

AJ8000	
High pass	120Hz
Low pass	120Hz
Low out	30Hz

AJ1000/AJ2000/AJ3000/AJ4000/AJ8000

Protection

DC protection	√
Short circuit protection	√
High temperature protection	√
Output overload protection	√
Soft startup protection	√

AJ1000/AJ2000/AJ3000/AJ4000/AJ8000

Frequency Response (1W 8Ω stereo)	20Hz~20KHz(±1dB)
Mode	Stereo/Parallel/Bridge
Fan Speed Regulation	Two-speed

Connectors (Each channel)

Input connectors

AJ1000/AJ2000/AJ3000	Jack & female XLR (Neutrik®)
AJ4000/AJ8000	male XLR & female XLR (Neutrik®)

Output connectors

AJ1000/AJ2000/AJ3000/AJ4000	Binding post & Speakon (Neutrik®)
AJ8000	3 × Speakon (Neutrik®)

Filter Capability

AJ1000	10000μf / 35V × 4
AJ2000	10000μf / 50V × 4
AJ3000	10000μf / 63V × 4
AJ4000	10000μf / 80V × 8
AJ8000	10000μf / 100V × 12

AJ1000/AJ2000/AJ3000/AJ4000/AJ8000

Input Impedance

Balanced	20K
Unbalanced	10K

Crosstalk (20Hz~20KHz ≥60dB
Rated Power 8Ω)

Intermodulation Distortion	≤0.1%
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Total Harmonic Distortion (20Hz~20KHz Rated Power, 8Ω)	≤0.1%
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Phase Response (1W, 8Ω 20Hz~20KHz)	±15°
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Slew Rate	≥30V/μs
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S/N ratio (8Ω, Rated Power 8Ω)

AJ1000/AJ2000/AJ3000	≥95dB
AJ4000/AJ8000	≥100dB

Damping Factor (1KHz, 8Ω)

AJ1000/AJ2000/AJ3000	≥300
AJ4000/AJ8000	≥500

Output Circuitry

AJ1000/AJ2000/AJ3000	Class AB
AJ4000/AJ8000	Class H+

Consumption

Without load power

AJ1000/AJ2000/AJ3000	30W
AJ4000	40W
AJ8000	96W

Rated consumption

AJ1000	600W
AJ2000	1100W
AJ3000	1300W
AJ4000	1600W
AJ8000	3900W

Dimension (W×H×D)

AJ1000/AJ2000/AJ3000	483×88×386.5mm
AJ4000	483×88×453mm
AJ8000	483×132×483mm

Gross Weight

AJ1000	14.2kg
AJ2000	17.2kg
AJ3000	20.2kg
AJ4000	26.6kg
AJ8000	37.4kg