

Model Omega Mono power amplifier

Output
Watts per channel into 8 ohms 1x500
Watts per channel into 4 ohms 1x1000
Watts per channel into 2 ohms 1x2000
Frequency response \pm 0.1db 20hz-20Khz
Distortion THD+Noise 0.002%

Power supply
Transformer size 3,000VA
Number of capacitors 64
Total capacitance 358,400 μ F

Inputs
Single-ended 2.25V/100K
(volts for full output/impedance)
Balanced 2.25V/100K
(volts for full output/impedance)

Weight & measurements
Net weight 87.3kg
192lbs
Height 495mm
19.5"
Width 305mm
12"
Depth 629mm
24.8"



Classé Audio Inc reserve the right to amend technical specifications without further notice.

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Design:
Thomas Manss & Company

PXBR ????????

Classé

Omega Mono power amplifier



Omega Mono power amplifier. Classé's series of reference products represent the alpha and omega of our experience and ability. Totally un-compromised in design, manufactured to the most stringent standards and embraced by audiophiles worldwide, they are the last word in music reproduction. With the Omega Mono amplifier, Classé has created a world benchmark in the application of power and control.



The Classé creed

From its foundation in 1980, Classé has pursued a single, simple vision: to develop audio equipment that offers unrivalled expression of music, irrespective of artist, genre or taste. We believe audio equipment should open doors to new listening experiences, not close them.

That belief is at the heart of every amplifier, source component and processor that leaves the Classé factory. The components we select, the systems we design and the processes we employ to refine their performance are driven, above all, by a deep love of music, and of hearing music as it was originally recorded.

Our equipment will reveal new facets to music you thought you knew intimately and liberate parts of your music collection you thought you'd forgotten.

Model description

The Omega Mono is Classé's reference standard power amplifier. It is an ultra-high-power, high-current mono power amplifier that utilises fully-balanced audio circuitry from input to output. The Omega Mono is able to accept both balanced and single-ended inputs.

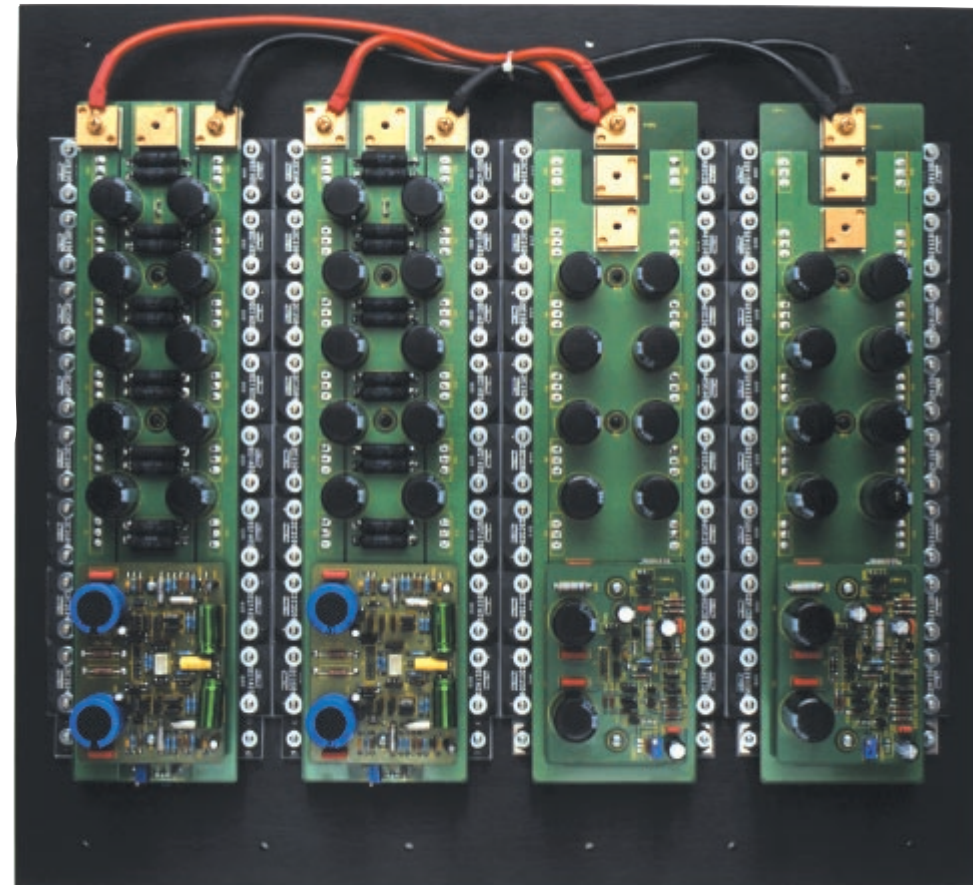
For incorporation into the very finest audio systems, the Omega Mono embodies the definitive reproduction of all forms of speech and music from any high quality source. The Omega Mono power amplifier has almost unlimited power output and current delivery, bringing the best out of any worthy loudspeaker system.

Circuit configuration

The Classé Omega Mono power amplifier features symmetrical circuitry where the circuits for the positive and the negative signals are an identical mirror image. The standard Classé circuit configuration combines J-Fets, Mosfets and high-power bi-polar transistors:

- Fast-reacting, low-noise J-Fet devices are used for the input stages
- Mosfets, with their greater current-carrying capacity, are utilised in the driver stage for the output transistors
- Bi-polar transistors are used both for voltage amplification after the J-Fet devices and, in multiples, as heavy-duty, high current-carrying output transistors

The principle of the circuit operation is that a fast transistor – J-Fet or Mosfet – is used to control the heavy voltage or current-amplifying bi-polar transistors. The devices are forced to switch on and off as fast as the controlling devices resulting in an amplifier that provides power with delicacy and speed.



The circuit board

The circuit boards are constructed from four bonded layers of epoxy resin, achieving an extremely strong, rigid and non-resonant foundation for the audio components. This construction keeps the signal path very short with the added benefit of containing the signal track within the sandwich of layers and preventing the ground plane from picking up any noise.

Power supply

The oversized Omega Mono power supply provides sufficient energy to allow the amplifier to double its output into 4 ohms, double again into 2 ohms – and double again into 1 ohm. This allows the user access to a potential 4000 watts into one ohm impedance (only limited by the local mains supply), safeguarding performance on difficult loudspeaker loads at high listening levels. A substantial encapsulated toroidal transformer is coupled to a vast array of small capacitors, charging and discharging far more rapidly than conventional large equivalents, resulting in an amplifier with a response to the music that is always open and fast – never slow and leaden.

Power supply regulation

The Omega Mono has the most substantial and sophisticated power supply regulation of any Classé product to date. 32 bi-polar transistors (the same quantity and type as the audio output transistors) are bolted onto a colossal heat sink. These transistors form the basis of the power supply regulation circuit and provide a totally stable supply for all the sections of the power amplifier. When reproducing powerful energy such as deep organ notes or driving bass the power drain on a conventional system can be great enough to starve other parts of the audio circuit. However, in the Omega Mono power supply, even under the worst possible conditions, the voltage can only drop by one volt. As the audio circuits under full power never call for maximum power supply voltage, the result is a totally stable supply to all the audio circuits under all operating conditions.

Input and output sockets

The RCA phono single-ended socket and the XLR balanced input socket are both gold-plated and securely attached to the chassis safeguarding the integrity of the signal path from cable to amplifier. Equally, the gold-plated speaker terminals are of heavy duty construction, able to accept 4mm plugs as well as spade terminals or bare wire of most designs.

Safety standards

As part of corporate policy all Classé products are fully-tested and safety-approved by independent bodies. All models have passed the most stringent tests and are certified for both EMC protection requirements as well as for North American and European Common Market low-voltage safety regulations.

Optimum bias levels

The Classé Omega Mono amplifier is set to run in Class A at normal listening levels. In practice, this ensures that the musical signal is reproduced in full Class A operation; eliminating all traces of grain and harshness. Only close to full gain or during peak requirements for energy-sapping material such as drums or sustained bass notes does the amplifier shift to Class A/B operation.

Multiple output devices

With an outsize heat sink regulating their temperature, the Omega Mono amplifier's multiple high performance output transistors guarantee stability and a consistent sound at all power levels. By arranging these output devices in a parallel configuration the output impedance is reduced – increasing the damping factor – which in return maximises the control the amplifier exhibits over the speaker system. In addition, the multiple output devices can handle more current without distress, maintaining optimum sound quality at all operating levels.

Additional features

- Dual set of output terminals facilitating bi-wiring using heavy gauge cabling
- Remote switch-on via 12-volt trigger inputs in conjunction with a Classé pre-amplifier or multi-channel processor
- Circuit protection for short circuit or overheating

Please ask your dealer for a copy of the main Classé Audio catalogue if you would like to learn more about our company, philosophy and technologies.

