

PA 6 Series

TECHNICAL SPECIFICATIONS

Type of product:	Professional 2-channel amplifiers.
Peak power 1kHz 200ms, crest factor 1:2, both channels powered (8/4/2 Ohms):	
PA 2006	480/ 840/ 1,050 WRMS
PA 4006	900/ 1,500/ 1,900 WRMS
Peak power 1kHz 200ms, crest factor 1:2, bridged (8/4 Ohms):	
PA 2006	1,500/ 2,000 WRMS
PA 4006	3,000 /3,800 WRMS
Continuous power, both channels powered (8/4/2 Ohms):	
PA 2006	400/ 650/ 970 WRMS
PA 4006	700/ 1,200/ 1,500 WRMS
Continuous power, bridged (8/4 Ohms):	
PA 2006	1,300/ 1,680 WRMS
PA 4006	2,400/ 3,000 WRMS
Input impedance (Ohms):	100 k, balanced
Input sensitivity (adjustable):	Max 0.775 VRMS
Maximum input level:	+19 dBV
Voltage gain:	
PA 2006	stereo 36.3 dB, mono 42 dB
PA 4006	stereo 39 dB, mono 44 dB
Bandwidth:	10 ÷ 115.000 Hz +0/-3dB
THD at maximum power:	□ 0.1%
I.M. distortion (SMPTE) at full power:	≤ 0.08%
Signal-to-noise ratio:	
PA 2006	□ 99, 98, 96 dBA/8,4,2 ohm
PA 4006	□ 104, 100, 98 dBA/8,4,2 ohm
Amplifier protection:	Excess output voltage, short-circuit, overheating, soft-clipping circuit.
Load protection:	ON/OFF bumps, DC, subsonic signals
Cooling:	forced ventilation system with front in-take and rear discharge with fan whose speed varies according to the temperature and the signal.
Circuitry:	pure complementary symmetry.
Input stage semiconductors:	High slew-rate IC.
Output stage semiconductors:	
PA 2006:	6 pairs of bipolar transistors 250W 250V 20A per channel.
PA 4006:	9 pairs of bipolar transistors 250W 250V 20A per channel.
Power supply filter capacity:	
PA 2006:	40000 µF/100V
PA 4006:	120000 µF/120V
Controls:	
Front panel:	ON/OFF, Input level.
Rear panel:	Balanced inputs, Stereo/Mono operation selector and ground connection, Remote Control.
Indicators:	
Front panel:	Output level, Clipping, Low power voltage, Short-circuit.
Input connectors:	Balanced and unbalanced with male and female XLR connected in parallel.
Output connectors:	binding posts (Red = Pos., Black = Neg.).
Dimensions (cm.)	
Height (with packing)	PA 2006 - PA 4006 8.8 - 13.2 (20 - 25)
Width (with packing)	48.3 (56)
Depth (with packing)	PA 2006 - PA 4006 45 - 51.7 (54 - 60)
Weight (kg.):	
PA 2006 (with packing)	18 (21)
PA 4006 (with packing)	33 (35)



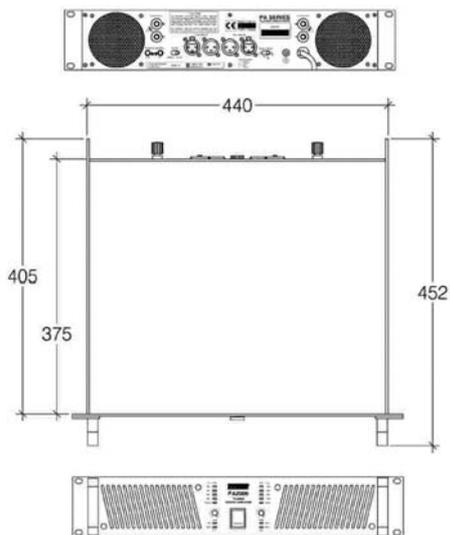
FEATURES

- High output power:
PA 2006: 1,050 WRMS per channel on 2 Ohms
PA 4006: 1,900 WRMS per channel on 2 Ohms
- Great driving capacity when operating on 2-Ohm loads and bridged on 16 - 8 and 4 ohms without current limits.
- Twin balanced inputs with the possibility of remote volume control.
- Twin forced ventilation with front intake and rear discharge.
- Complete indication of output level and operating mode.
- Integral protections and remote control of level and Mute.

APPLICATIONS

- Outline PA 6 Series amplifiers are designed for the most severe applications in pro sound reinforcement, where quality sound is a must. These installations include systems for shows, clubs, conference halls, theatres, cinemas and public venues in general. For their characteristics, PA 6 Series amplifiers are particularly suitable for use in systems which have to be transported, thanks to the favourable weight: dimensions and power ratio. The exceptional output power in relation to their dimensions, combined with the very simple (a potentiometer) but effective remote volume control, makes these amplifiers particularly interesting for those permanent installations in which a large number of amps have to be used in small space, or even in narrow places, provided they are air-conditioned.

PA 2006



DESCRIPTION

Designed by using the most advanced electronic techniques and the latest technology, Outline PA 6 Series is a range of professional amplifiers with Mos-Fet circuitry, built to the highest standards. Studied to ensure completely reliable operation, the Outline PA Series doesn't require preventive maintenance.

These amplifiers are fitted exclusively with components selected to CEI/IEC norms following the most up to date choices of circuitry and constructed to meet safety norms regarding "electrical equipment" laid down by the relative European Community directives.

Based on fully complementary symmetric circuitry, Outline PA 6 Series amplifiers use high-speed IC in the differential input stages (operating in class A) and high current bipolar transistors in the output stages, operating in class AB, with low counter-reaction values.

The 4-level power supply circuit is based on a heavily-built high-powered toroid transformer, backed up by batteries of high capacity, low series resistance electrolytic filter condensers.

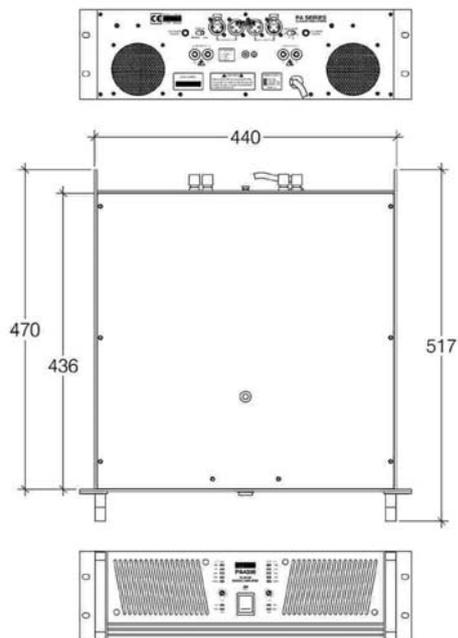
Sophisticated protection circuits, which don't limit the current fed out by the output stages, apart from in hazardous conditions, enable PA 6 Series amplifiers to work with tranquillity even in the hardest environmental and running conditions; there are also protections for the load connected to it, by means of circuitry which uses: Series PA 6 amplifiers have a VCA system to avoid clipping distortion of the output stages.

The output transistors are cooled using a forced ventilation system, with front in-take and rear discharge with fan whose speed varies according to the temperature and signal. As well as a useful circuit for remote volume control, Series PA 6 amplifiers have a LED display system indicating output levels, running and protection status.

Construction is based on an extremely sturdy self-supporting structure in aluminium with 19" EIA Standard dimensions, with front handles and rear spacers.

The PA 2006 occupies two Rack Units, whereas the PA 4006 occupies three. Internal construction is completely modular and based on input and output boards which can be replaced without any need for soldering, greatly facilitating any assistance work.

PA 4006



amplifiers

PA 6 Series

outline

Via L. da Vinci, 56 - 25020 Flero (Brescia) Italy
tel. +39 030 3581351 - fax +39 030 3580431
www.outline.it - e-mail: info@outline.it