INPUT SENSITIVITY:
Internally adjusted with jumper
Open jumper: $0 \mathrm{dBv}(0.775 \mathrm{~V})$.
CIosed jumper: : 8 ( 0 ( 1.95 V ). At rated output power ( $4 \Omega$ ).
Balanced: $20 \mathrm{~K} \Omega$. / Unbalanced: $10 \mathrm{~K} \Omega$.
C.M.R.R.:
Greater than $70 \mathrm{~dB}, 20 \mathrm{~Hz}$ to 10 KHz .; 90 dB at 50 Hz . DAMPING FACTOR:
Greater than 700 at 1 KHz into $8 \Omega$
HUM AND NOISE ("A" weighted):
Greater than $100 \mathrm{~dB}, 20 \mathrm{~Hz}$ to 20 KHz ref. full output. FREQUENCY RESPONSE:
20 Hz to $20 \mathrm{KHz}(-0,5$
OUTPUT SLEW RATE:
Limited by input TIM filter to $30 \mathrm{~V} / \mu \mathrm{s}$. Internally $60 \mathrm{~V} / \mu \mathrm{s}$.
CHANNEL SEPARATION:
Greater than 65 dB at 1 KHz
INPUT CONNECTORS PER CHANNEL
MF8 - MF12 MF16-MF24
XLR-3-31 Balanced. XLR-3-31 Balance
OUTPUT CONNECTORS PER CHANNEL:
SPEAKON® and binding post.
INDICATORS:
CLIP LED (one per channel). / SIGNAL LED (one per channel), THERMAL LED (one per channel)
ERROR LED (one per channel).
ON/STBY LED (one per channel). / BRIDGE LED.
COOLING:
Forced air by continuously variable speed fan
Front to back cooling
PROTECTIONS:
Electronic against short-circuit and open circuit. /Thermal against heatsink and mains transformer overheating.
DC out by CROW BAR. / Magnetic circuit
breaker (only MF16 and MF24
Delayed switch on / Inrush transient / Input overvoltage.


## OUTPUT POWER IN WATTS:

(RMS, 1 KHz, THD $<0,1 \%$ ) 1 KHz, THD $<1 \%$ ] Stereo mode
(both channel driven)

|  | MF8 | MF12 |
| :---: | :---: | :---: |
| $8 \Omega$ | 240 | 360 |
| $4 \Omega$ | 400 | 600 |
| $2 \Omega$ | 500 | 750 |
| $8 \Omega$ | 800 | 1200 |
| $4 \Omega$ | 1000 | 1500 |
| $4 \Omega$ | 460 | 700 |
| $2 \Omega$ | 650 | 1000 |
| $\begin{aligned} & 115 / 230 \mathrm{~V} . \\ & +10 \%,-30 \% .50 / 60 \mathrm{~Hz} . \end{aligned}$ |  |  |
|  | 1500 V.A. | 2000 V.A. |
|  | $16 \mathrm{Kg} / 20 \mathrm{Kg}$. | $17 \mathrm{Kg} / 21 \mathrm{Kg}$. |

POWER REQUIREMENTS: NET/SHIPPING WEIGHT: DIMENSIONS:
$483 \times 89 \times 384 \mathrm{~m} / \mathrm{m}_{(19 " \times 2 / 21 \mathrm{~K}}$ $450 \mathrm{~m} / \mathrm{m}$ with inpu .


PROFESSIONAL POWER

Bridge mode:


Dynamic power (EIA RS-490, both channel driven):


930
1400

(115 Volt specia/60 Hz.
(115 Volt special order)
000 V.A

| 3000 V.A | 4000 V.A. |
| :--- | :---: |
| $29 \mathrm{Kg} / 33 \mathrm{Kg}$. | $30 \mathrm{Kg} / 34 \mathrm{Kg}$. |

$48 \mathrm{Kg} / 33 \mathrm{Kg} . \quad 30 \mathrm{Kg} / 34 \mathrm{Kg}$.

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT PREVIOUS NOTICE


EQUIPOS EUROPEOS ELECTRONICOS, S.A.L.
Avda. de la Industria, 50. 28760 TRES CANTOS

## WOOSFET POWEREAWMPLFIERS

## ROTECTION: Incorporates multiple

 protection: Switch On/Off transients, delayednrush current, DC output current, short and ope circuit, overheating in the output stage and power supply.

SPEAKON: Besides a $4 \mathrm{~m} / \mathrm{m}$ diameter twin binding post per channel, (normalized according EN-60065), amps incorporate SPEAKON• very extended use.

BALANCED: Equipped with electronic balanced in long wiring set-ups.

## $2 \Omega$ : MF Series power amplifiers are prepared to work in low impedance

 loads.COOLING: Heat evacuation is guaranteed by (ront to back servo assisted fan circuits).

## POLARITY: An inboard switch is included, in order to select the input polarity. Although the

 A.E.S organization recommends $2+$ norm, at equipment is wired with $3+$ polarity.H CLASS: The MF24, (highest power of th Series), incorporates H class configuration output efficiency, offering as a result an increase in powe and a reduction in weight.

SENSITIVITY: Through internal adjustments on the input module board, several input on the input module board, several input
sensitivities can be selected, in order to adapt the
amp to the rest of the equipment.


## CLIPPING CIRCUIT

 LIMITERsince most of the damage caused to loudspeakers, and even in the power amplifiers, is normally the result of the permanence of the power unit during long periods of time in clipping, it is necessary to have limiter mechanisms that assure heir reliable operation.

For this purpose, all the MF series power amplifiers has a "soft-clipping" circuit that acts on the output power by comparing the input and output signals. Once it detects the output signal thereby avoiding overloading and saturation levels than might damage the system.

MULTIPLE PROTECTION protectionh beut with the incorporation of with the incorporation of
CROW-BAR circuits or solid state relays. The conventiona relays incorporate contacts associated with electromechanical elements that with the time are subject to failures. This is no longer possible with the solid state devices. Guiding directly the power transistors output to has improved several characteristics of the signa quality, the damping factor and the global reliability.
Equally, the
conventional thermal switche (based on contacts and bimetals) on the power modules has been substituted information completes the double condition of speed fan double condition of speed fan thermal protection circuits. The power supply transformer is protected also against excessive heating disconnecting both inputs until their normal temperature of operation is reached. All the protection power amplifier front panel.

Our broad experience in the design and manufacture of high power amplifiers culminate
with the introduction of the new MFSeries, our most recent generation of amplifiers


INPUT CONNECTIONS FLEXIBILITY The amps are fitted with an inpu system configured as a panel that integrates na mode swith ( $A$ temale XLR + Jack the models MF8 / MF12 on the chassis structure)

By means of this system, the polariy and the sensitivity of the power amplifier can be changed in order to allow Is integration in any sound system. This segregation of the elements around the input signal area opens the possibility of incorporating with ease remote control circuits and crossovers, as well as simplifies maintenance work.

## MONOBLOCK CHASIS

The chassis frame is built around a single piece: the efforts of the different sub-assembies fall on an only piece of welded laminated greai touring sound systems.

| OUTPUT POWER in Watts RMS 1 KHz , THD + N 0,1\% [1KHz,THD+N 1\%] |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| MODEL | Stereo Mode (per channel) |  |  | Bridge Mode |  |  |  | Stereo Mode |
|  | $8 \Omega$ | $4 \Omega$ | $2 \Omega$ | $8 \Omega$ | $4 \Omega$ | 70,7 V | 100 V | 70,7V |
| MF 8 | 240 | 400 | 500 | 800 | 1000 | 700 | --- | --- |
| MF 12 | 360 | 600 | 750 | 1200 | 1500 | --- | 1200 | --- |
| MF 16 | 480 | 800 | [1050] | 1600 | [2100] | --- | --- | --- |
| MF 24 | 720 | 1200 | [1500] | 2400 | [3000] | --- | --- | 2×1200 |



LIMITER: Limiter circuits with fixed threshold. hese limiters will lengthen notably loudspeaker nd power amplifier's lifif without appreciable
deterioration of sound quality.

BRIDGE: The BRIDGE configuration is for dapt the power amplifier to certain load conditions.

MOS-FET: All MF Series amplifiers incorporate
MOS-FET technology power transistors with LATERAL geometry. These devices a assure high

