



## E-12 POWER STAGE

### TECHNICAL CHARACTERISTICS

Voltage.....	24V.D.C.,(12-35V.D.C.).	Frequencies Margins.....	8.000Hz.
Maximum Consumption.....	1500mA.	R.M.S./Music Power 4.....	30W./42W.
Minimum Input Signal.....	100mV.	R.M.S./Music Power 8.....	20,4W/30W
Maximum Input Signal.....	300mV.	Distortion at maximum power .....	2%
Input Impedance.....	100K.	Protection Against Polarity Iversion.....	YES
Output Impedance.....	4-8.	Dimensions. ....	96x64x40mm.

### INSTALLATION

The E-12 module is a mono 30W. R.M.S. at 4ohms power stage, specially recommended for applications supplied at 24V.D.C. It includes protection against polarity inversion and against output shortcircuits

**MODULE SUPPLY.** The E\_12 must be supplied with a perfectly stabilised 12-35V DC power supply (24V being its perfect value), for this reason, we recommend you to no use rectifiers or basic power supply to avoid to negatively affect the module's operating mode, but a power supply. We suggest you our FE-14, which has been designed to perfectly answer to the circuit requirements. Install a fuse and a switch as it is indicated in power supply instructions, both are necessary for the correct module protection and for your own safety, as it is indicated in the CE rule.

To supply the circuit, connect the positive and the negative of the power supply to the corresponding terminal screws indicated in the General Wiring Map paragraph, respecting the polarity. The distance between the power supply and the module must to be as short as possible. Before to follow, be sure that the assembly has been correctly done.

**INSTALLATION.** To do the installation between the power stage and the sound source, the distance must be as short as possible (max. 50cm), using a low frequency shielded cable for the installation. Connect the positive from the audio signal to the input terminal identified as "IN" (use the main of the cable). The negative (braid of the cable) must to be connected to the terminal with the ground symbol. Do never inject a signal with a level higher that the maximum specified in the characteristics (300mV) to avoid damaging the module. If you inject a signal with a level inferior than the required one (100mV), the module doesn't amplify it because it will previously require a preamplifier connection to increase this signal.

For the loudspeaker connection to the module output you must respect their polarity (for both), using a common parallel cable. Use a loudspeaker with 40W minimum power but we recommend you to use a 50W. Install a quality loudspeaker to obtain a good final result.

**VOLUME CONTROL.** To To adjust the signal input level, varying consequently the volume, you hate to insert on it a 47K logarithmic potentiometer. Do the connection as it is indicated in the General Wiring map, using shielded cable for the assembly.

**SUGGESTIONS.** Install the power stage into a metallic enclosure, connecting the negative of the audio signal input, identified with the ground symbol, to the enclosure. More over, if it is necessary to avoid mains parasites, you can install between the 230V power supply Input and the mains connection an anti-parasite filter.

# GENERAL WIRING MAP

