

## PA Amplifier Stereo/Bridgeable 2x550W

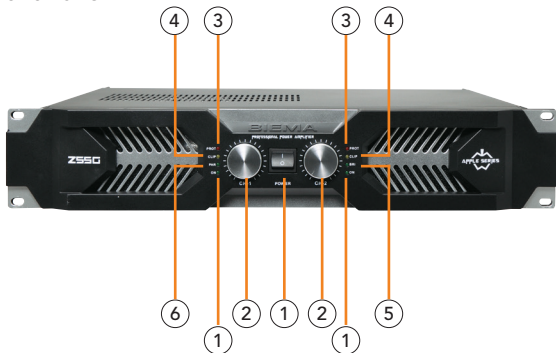
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# Operating Instructions



This PA Amplifier is an effective solution for demanding commercial audio applications. This new series dubbed the "Apple" range have been completely redesigned by Biema to offer vastly improved cooling, efficiency and circuit protection. This range is designed to function as a stereo or high power single channel amplifier for use in foreground sound reinforcement ie: pubs, clubs, cinemas and multi-function venues. The variable speed cooling fan and 'T' shaped heatsink tunnel ensure the amplifier performs well even in demanding conditions.

## Front Panel

**1. Mains Switch**

When you first press the switch, a soft start circuit will run to avoid a surge strike. In about 3-4 seconds there will be a click to indicate that the soft start has finished. 1-2 seconds later there will be another click to indicate the amplifier is connected.

**2. CH-1/CH-2 Input level control**

Adjust the control to the desired volume. Only use the CH-1 control whilst amplifier is set in Bridge or Parallel mode.

**3. CH-1/CH-2 Protection indicating LED**

The LED will light up red to indicate when the amplifier is running un-stable or has gone into thermal protection.

**4. Clip LED**

This LED turns on just before the maximum output level of the amplifier has been reached. The clip LED's may also turn on from time to time due to song selection however they shouldn't stay lit for long periods of time. When this occurs we suggest you turn the output level down.

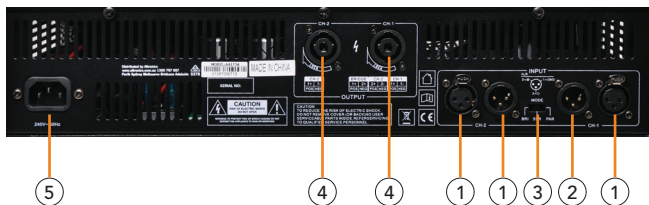
**5. Bridge mode indicating LED**

When this LED lights, it indicates the amplifier is working under BRIDGE mode. The input signal only acts on CH-1.

**6. Parallel mode Indicating LED**

When this LED lights, it indicates that the amplifier is working under PARALLEL mode. The input signal only acts on CH-1.

## Rear Panel



### 1. CH-A/CH-B input XLR

Standard XLR jack, below is the input method  
Pin1: signal ground, Pin2: signal+, Pin3: signal-

### 2. CH-A/CH-B Signal Link Output

Standard XLR (male) socket for input signal link, its Pins are parallel connected with the female XLR socket so you can feed the same signal to another amplifier. Pin1: signal ground, Pin2: signal+, Pin3: signal-

### 3. CH-A/CH-B Output Mode Set Switch

Select the run mode as STEREO, BRIDGE or PARALLEL

### 4. CH-A/CH-B Output SPEAKON

Standard speakon socket 1+2+: 1-2-:

### 5. Mains Power Supply Cord

## Features

- Rugged heavy duty construction
- 19" rack mount
- Bridgeable, parallel or two channel stereo operation
- Earth lift switch
- 3 pin XLR and 6.35mm inputs.
- Short circuit protection with indicator
- Overload protection with indicator
- Clipping prevention circuitry with indicator
- Variable speed fan forced cooling
- Muting circuit for switch on/off

## Specifications

Power: 2 x 550W 8 $\Omega$ , 2 x 800W 4 $\Omega$

Power (bridged): 1600W 8 $\Omega$

Output Connections: SPEAKON

Freq. response: 20Hz - 20kHz  $\pm$ 0.5dB

Input sensitivity: 0.77V

Input Impedance: 20k  $\Omega$ /Balanced, 10k  $\Omega$ /un-balanced

S/N Ratio:  $\geq$ 95dB

THD:  $\leq$ 0.03%

Crosstalk @ Rated Output/8k $\Omega$ /1kHz:  $>$ 70dB

Damping Factor/8k $\Omega$ /1kHz:  $>$ 240

Slew Rate: 15V/ $\mu$ S

Protection: Soft Start, Short Circuit, Limiter, DC Fault,  
AC Line Fuse, Thermal Cut

Cooling System: Two Steps speed fan

Mains Power Supply: AC: 220-230V 50Hz/60Hz

Dimensions (mm):  $\approx$  482W x 430D x 88H

Net Weight: 10.5kg

Gross Weight: 12.5kg

## Safety Instructions

1. Read instructions before the product is connected and used.
2. Retain Instructions for future reference
3. Follow the warnings in instructions
4. Do not expose this appliance to heat sources such as radiators
5. The appliance should be placed so nothing interferes with its ventilation.
6. This appliance should be connected to a power supply that's suitable. Be sure to connect the appliance to a mains power socket which features a protective grounding connection.

**Caution:** To reduce the risk of electric shock, do not remove any parts. No user serviceable parts inside. Refer servicing to qualified service personnel only.

**WARNING:** To reduce fire or electric shock do not expose this appliance to rain and moisture. Electrical equipment should never be kept or stored in damp environments.