



# BIEMA AMPLIFIER APPLE SERIES PROFESSIONAL FORCE AMPLIFIER

#### TECHNICAL DATA & INTRODUCTION

MODEL	A4155		
Output power STEREO 8 OHMS	150W+150W		
TA 1KHz THD≤1% 4 OHMS	220W+220W		
BRIDGE 8 OHMS	440W		
Frequency response	20Hz-20KHz +/-0.5dB		
Input sensitivity	0.77V		
Maximum input level	18dB/6.2V		
Input impedance active balanced	20KOHMS/Balanced,10KOHMS/un-Balanced		
Signal/noise ratio a-weighted RMS	≥95dB		
Crosstalk at rated output power 8 ohm 1kHz	>70dB		
Damping factor f=1kHz 8 ohms	>240		
Slew rate internal	15V/uS		
Protection	SHORT CIRCUIT, CURRENT LIMITED DC FAULT AC LINE FUSE,		
	THERMAL CUT OFF, POWER UP/DOWN TRANSIENTS		
Indicators	POWER(GREEN)PROT(RED)CLIP(YELLOW) SIG (GREEN)		
Cooling	VARIABLE SPEED FAN		
Front panel controls	LEVEL ACH, BCH POWER SWITCH		
Rear panel controls	STEREO/BRIDGE/PARALLEL MODE SWITCH		
Connector	XLR BALANCED INPUT, PROFESSIONAL SPEAKON OUTPUT,		
Power consumption half power 8 ohms	<440W		
Power supply	AC240V/50Hz		
Dimensions(W×D×H)mm Interior/Exterior	483x320x88/(575x425x150 )mm		
N.W/G.W	9.1kg/10.5kg		

TECHNICAL PARAMETER'S CHANGERS ARE NOT INFORMED.



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### **OWNER'S MANUAL**

The information furnished in this manual does not include all of the details of design, production, or variations of the equipment, Not does it cover every possible situation that may arise during installation, operation or maintenance. If you need special assistance beyond the scope of this manual, please contact our Technical Support Group.



TO PREVENT ELECTRIC SHOCK DO NOT REMOVE COVER OR BACK. NO USER SERVICEABLE PARTS INSIDE REFERS SERVICING TO QUALIFIED SERVICE PERSONNEL.

#### **MAGNETIC FIELD**

CAUTION! Do not locate sensitive high-gain equipment such as preamplifiers or tope decks directly above or below the unit. Because this amplifier has a high power density, it has a strong magnetic field, which can induce hum into unshielded devices that are located nearby. The field is strongest just above and below the unit.

If an equipment rack is used, we recommend locating the amplifier(s) in the bottom of the rack and the preamplifier or other sensitive equipment that the top.

#### **WATCH FOR THESE SYMBOLS:**



The lightning bolt triangle is used to alert the user to risk of electric shock



The exclamation point triangle is used to alert the user to important operating or maintenance instructions



### WARNING TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE!

#### INTRODUCTION

**BIEMA** APPLE series amplifier represents a major step forward in **Biema** power amplifier technology and design. In 1987 Mr. **Biema** collaborated with professors at Electro acoustics Research Center of Princeton University and established **Biema** Acoustics R&D Center. Under his passion at music, Mr. **Biema** has contributed most of his time and technology at the development of **Biema** audio equipments. **Biema** professional amplifiers are coming with excellent sound effect but with very reasonable price. It offers quality guarantee and technological support for the apparatus you are using.

#### **Quiet Operation**

High quality of the power transformers reduces external magnetic field radiation, which can induce audible hum into associated equipment and cabling. In addition, the up-to-dated technology components are incorporated throughout the design to ensure extremely low noise generation **Biema** all fore Series power amplifiers.

#### DC Voltage protection

If an amplifier channel detects DC voltage at output terminals, the output relay will immediately open to prevent loudspeaker damage. The protection LED will light.

#### Reliable Power Supply

The **Biema** APPLE Series amplifiers have automatic power supply protection. The power supply has experienced DC automatic regulation, which grants **Biema** APPLE Series amplifiers excessive reliability. **Biema** APPLE amplifiers can be wired for 115/230v 50Hz-60Hz AC power supply.

#### GENERAL

**Biema**'s new APPLE series amplifiers are high performance and high efficiency's top quality amplifiers. To get good effecting of cooling and highest work efficiency, variable speed fan and T type heat-sink have adopted for constant cooling. Besides, APPLE series amplifiers have their comprehensive protect function.

- 1. Power ON/OFF transient, prevents the surge assault.
- 2. Thermal cut off protection, the amplifier will cut off the link with speakers when the temperature is more than 100%.

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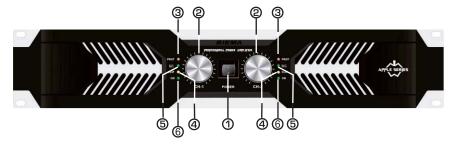
- 3. Short circuit current limited protection.
- 4. The muting circuit prevents switching noise by turning the amplifier on or off.
- 5. DC protection at speaker output, the amplifier will cut off the link with speakers when the amplifier is unusual.
- 6. Limitor protection, providing voltage of compression without distortion, the amplifier will not clip.

#### PRECAUTIONS

- 1. Don't stack anything upon the amplifier.
- 2. Always use a power source of adequate capacity.
- 3. DO NOT turn ON/OFF the power of continuously. Never allow the ventilation holes on the front of the amplifier to be obstructed in any way.
- 4. Input level adjust controls are provided on each channel.
- 5.Output can use binding posts, speakon posts.
- 6. When the amplifier works in stereo, bridge-mono or parallel-mono mode, the switch must be on the same.
- 7. Fan's variable speed may produce light noise, which is normal when continuous output large power and amplifier gives out heat.
- 8. To clean the amplifiers, wipe it wipe a dry cloth, if the case is very dirty, disconnect the AC cord form the power source and wipe it with a dry cloth. Never use solvents or chemical cloth. Never spray insecticides as they may cause discoloration or peeling.
- 9. If any trouble is found, disconnect the power and contract your distributor.

#### MAJOR OPERATING CONTROLS AND THEIR FUNCTIONS

#### FRONT PANEL:



#### 1. MAINS POWER SWITCH

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When press the switch, the soft start circuit run for avoiding surge strike. In about 3-4 seconds, there will be a clicking denote that soft start finished. And more 1-2 seconds later, there will be another "Clicking", the amplifier is connected with speaker and ready to work.

### 2. CH-1/CH-2 INPUT LEVEL CONTROL

Adjust it to get the volume desired.

#### 3. CH-1/CH-2 PROTECTION INDICATING LED



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#### 4. CH-1/CH-2 CLIP INDICATING LED

Turns on just before the maximum, distortion free, output level of the amplifier. The clip LEDs may turn on shortly from time to time but they may certainly not turn on for longer periods. In this case you have to turn the output level down!

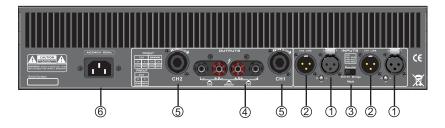
#### 5. CH-1/CH-2 Signal Presence LED

Green LED, one per channel, flashes when input signal exceeds -80dBu.

#### 6. CH-1/CH-2 POWER LED

Green LED, LED illuminates green when amplifier is on.

#### REAR PANEL:



#### 1. CH-1/CH-2 input XLR

standard XLR jack, below is the connection method; Pin1: signal ground, Pin2: signal+, Pin3: signal-

#### 2. CH-1/CH-2 Signal Link Output

Standard XLR (male) socket for input signal link, its Pins 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. Output Mode Set Switch.

Select the run mode as STEREO or BRIDGE or PARALLEL

### 4.CH1/CH-2 SPEAKON post output Used by a standard SPEAKON connector.

5.CH1/CH-2Binding post output Used by a standard Binding post connector.

#### 6. Mains Power Supply Cord

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