

FRONT PANEL:

- 1. (Mic) INPUT:** This is a balanced XLR input for connecting a dynamic microphone. This can be a vocal mic to sing into while you play, or alternatively an instrument mic to amplify an all-acoustic instrument that does not feature an onboard preamp system. You may also use this input to connect an electro-acoustic instrument with a balanced output signal.
- 2. (Mic) LEVEL:** This control determines the output level of the sound picked up by a microphone, if one is used.
- 3. (Instrument) INPUT:** This is a 1/4" (Ø 6.3 mm) input jack socket for plugging in an electro-acoustic instrument. We recommend that you always use a high-quality shielded guitar cable to prevent any background noise interference or unwanted feedback.
- 4. (Instrument) LEVEL:** This control determines the output level of any instrument plugged into the amplifier via the instrument input jack.
- 5. PASSIVE/ACTIVE SWITCH:** This switch enables the user to choose between passive and active modes according to whether the instrument connected is passive (without preamp) or active (with preamp).
- 6. TREBLE:** This control determines the level of high frequencies in the output signal. Adding TREBLE will make your sound brighter and sharper.
- 7. MID:** This control determines the level of middle frequencies in the output signal. Adding MID will make your sound rounder and fuller.
- 8. PARAMETRIC MID:** This control allows you to fine tune your sound by cutting or boosting the mid frequency parameters of the output signal. At a low level, the PARAMETRIC MID control will emphasize the lower mids, while increasing the level will bring out the upper mids. The PARAMETRIC MID control can help you explore a wide variety of different guitar tones.
- 9. BASS:** This control determines the level of low frequencies in the output signal. Adding BASS will make your sound warmer and heavier.
- 10. SPRING REVERB:** This is the reverb intensity control. This controls the amount of reverb that is added back to the original dry signal. Adding REVERB will produce a reverberation effect in your instrument sound, as though you were playing in a large hall. A little can go a long way in adding that special depth to your sound. If engaged, the reverb is always active in both microphone and instrument channels.
- 11. CD/MP3 INPUT (L + R):** These are line level, RCA phone sockets (Right + Left) into which a stereo MP3/CD/Tape player may be connected.
- 12. PHONES:** This is a 1/4" (Ø 6.3 mm) stereo jack output to connect the headphones. When headphones are connected, no sound is produced from the speaker.
- 13. POWER LED:** When this red LED is lit, the amplifier is ready to work. When it is off, it means the amplifier is powered off.



BACK PANEL:

- 1 DC 12V/ 800mA INPUT:** This is the input socket into which the 12V DC cable of a mains power adaptor can be plugged if you wish to recharge the built in 12V DC battery, or power your amplifier from the mains network.
CAUTION: Use only the included AC adaptor to avoid damaging the amplifier or generating any other problems. Please check that the supply voltage details mentioned on the mains power adaptor are in accordance with your electricity supply.
- 2 POWER SWITCH:** This switch turns the amplifier on or off, either on battery operation or with the amplifier connected to the proper AC outlet through the mains adaptor (included).

TECHNICAL SPECIFICATIONS

Max. Rated Power Loudspeaker	12 Watts RMS @ 4 Ohms load/ 6.5" Twin Cone Speaker
Frequency Response	65 Hz to 18 kHz
Total Harmonic Distortion	3.5 %
Signal to Noise Ratio	-64 dB @ max Rated Power
Input Impedance	180k Ohms
Power Consumption	22 Watts Max (w/ fully charged battery)
Maximum Input Level	56 mV (RMS)
Maximum Gain	60 dB (@ 1kHz)
Dimensions (H x W x D)	37 x 40.5 x 20 cm / 14.6 x 16 x 7.9 in.
Weight	9.2 kg / 20.3 lbs

BATTERY SPECIFICATIONS

Type	FP 1223, 12V 2.3 Ah/ 20Hr, rechargeable lead battery
Size (L x W x H)	176 x 35 x 61 mm / 7.01 x 1.38 x 2.40 in
Weight (approx)	970 g / 2.13 lbs

POWER ADAPTOR SPECIFICATIONS

Type	AC 230 – 240 V/ 100 mA to DC 12 V/ 800 mA/ 9.6 VA Transformer
Size (L x W x H)	81 x 56 x 49 mm / 3.19 x 2.20 x 1.93 in
Weight (approx)	500 g / 1.10 lbs

Features and Specifications are subject to change without notice.

INSTRUCTIONS FOR USE:

Connect your instrument to the input socket of the amplifier with a suitable guitar lead (this lead is not supplied with the amplifier, but is normally supplied with the instrument). You may also plug a microphone into the XLR input provided. If connecting a microphone, please ensure that the volume level is set low before turning on the amplifier, as feedback can otherwise result, possibly causing damage to the speaker. Finally, press the Power Switch to the ON position. The power LED will glow and your amplifier is ready for use.

WARNING: This amplifier works on both battery and AC outlet. When using the built in, rechargeable 12V DC BATTERY only, the unit can function for about 15 hours of continuous use (expected), depending on the actual operating conditions. When using the AC adaptor, operation will continue in the event of AC line voltage interruption (power blackout or power plug disconnection) thanks to the battery mounted in the unit.

IMPORTANT SAFETY INSTRUCTIONS:

READ AND KEEP THESE INSTRUCTIONS. HEED ALL WARNING.

- If, after you have followed the instructions outlined above, your amplifier fails to function, please contact your dealer. Under no circumstances should the amplifier be opened. Leave all servicing to qualified personnel.
- Electrical appliances must never be used in conditions of high humidity or heat.
- To prevent any risk of fire or electric shock, never spill or splash liquids on the amplifier. Should this happen, unplug the power cable from the mains outlet and switch off the amp immediately.
- We would like to draw your attention to the instructions printed on the notice attached to the back of the amplifier.
- Exposure to extremely high noise levels may cause permanent hearing damage (especially when using headphones). Please use this amplifier responsibly for you and your neighbourhood.



CAUTION: TO PREVENT ELECTRIC SHOCK DO NOT REMOVE TOP OR BOTTOM COVERS. NO USER SERVICEABLE PARTS INSIDE.

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK. DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE.

SPECIAL BATTERY SAFETY INSTRUCTIONS:

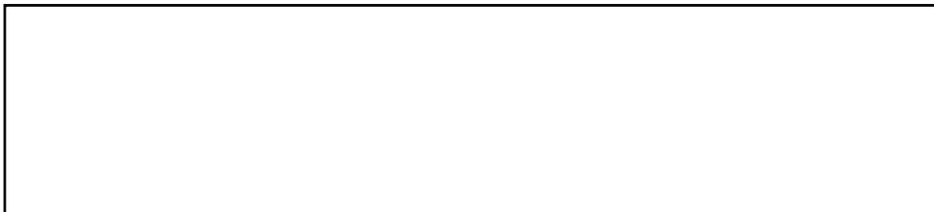
Please be aware that your amplifier has a powerful chargeable battery built in. Special safety instructions need to be followed. Keep the amplifier upright as much as possible. Avoid major physical traumas. Switch off the amplifier when not in use or when in doubt about an overheated battery, or other technical problem. (In the event of such an occurrence, it is not sufficient to unplug the power supply, as the battery will take over. This is why the apparatus must also be switched off). If after you have unplugged the power supply and switched off the amplifier the battery continues to heat up, there is a risk of battery explosion. In this event, cover the amp completely with a towel or blanket and bring it outdoors. After cooling down, the amp will have to be serviced by a professional and the battery replaced by one of the same type only.

Dispose of a used battery properly.

MARKING & CONFORMITY:

1. The CE mark on this product means it conforms to the EMC Directive (2004/108/CE), CE marking Directive (93/68/EEC) and Low Voltage Directive (2006/95/EC).
2. The «Crossed-out Wheeled Bin» is to draw your attention to the WEEE (Waste Electric & Electronic Equipment) Directive (2002/96/EC). It means this apparatus must be collected separately for recycling.
3. «RoHS compliant» means this device conforms to the Directive (2002/95/EC) on the restriction of the use of certain hazardous substances in electrical and electronic equipments, such as: Mercury, Lead, Cadmium, Hexavalent Chromium, Polybrominated Buphenyl (PBB) and Polybrominated Diphenyl Esthers (PBDE).

DISTRIBUTOR / DEALER



EMD Music 10-2009-UK



USER MANUAL



**BATTERY POWERED
INSTRUMENT AMPLIFIER
W/ SPRING REVERB**

MOB 20