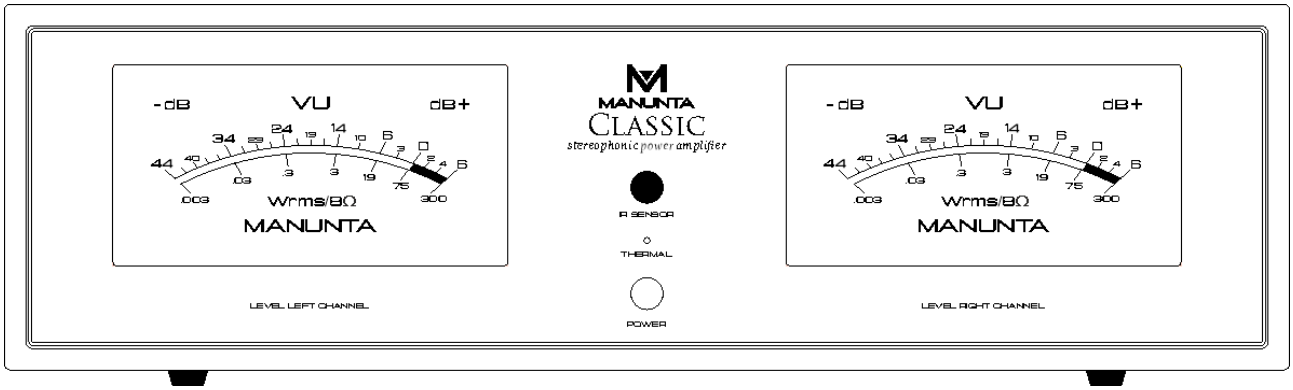
MANUNTA

Classic Power Amplifier

User Manual



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Warning!

Unauthorized modifications or alterations by the manufacturer may invalidate compliance with CE regulations and render the appliance unsuitable for use. The manufacturer declines all responsibility for damage to persons or property resulting from improper use or malfunction of an appliance subjected to unauthorized modifications.

This appliance complies with CE standards: CEI EN 55022:2009 Class B (Radiated Emissions), CEI EN 55024:1999, CEI EN 55024:A2/2003, CEI EN 55024:IS1/2008 (Radio Frequency Electromagnetic Fields, 50Hz Magnetic Field Immunity Test and Electrostatic Discharge – ESD).

For this device to function properly, all connections to other devices in the system must be made with all devices turned off. Failure to follow this instruction may cause damage to the Classic Power Amplifier.

The label above, visible on the casing of the appliance, indicates that the product, at the end of its use, cannot be improperly managed as general waste, but must be treated as an electrical and electronic appliance by an appropriate disposal system as regulated by the WEEE directive (or Waste of Electrical and Electronic Equipment directive)..

By properly recycling the product, potential harm to the environment and human health, which could otherwise be caused by disposal as general waste, will be avoided. Appropriate reuse of materials also reduces the waste of resources. For more detailed information on the disposal of this product, please contact M2Tech Srl..

WARNING: The information contained in this manual is believed to be reliable and accurate. M2Tech reserves the right to change or modify this information at any time, without notice. Customers are advised to ensure they are consulting the most recent version of this manual.

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Dear Customer,

Thank you for purchasing the Classic Power Amplifier. You own a premium stereo power amplifier with numerous unique features, designed to perform at its best when used with other M2Tech products.

The Classic Power Amplifier implements a suite of unique technological and functional solutions designed to maximize listening pleasure:
- a highly dynamic Class AB power stage, capable of handling the most intense peaks in the music signal and driving even the most demanding speakers;
- single-ended and balanced inputs for interfacing with any preamplifier;
- highly dynamic VU-meters calibrated in decibels and watts rms into 8 ohms for continuous monitoring of power output;
- a power supply equipped with two powerful, highly dynamic toroidal transformers and low-noise regulation stages;
- pass/though trigger inputs for easy integration with other system devices or multi-room controllers.

The Classic Power Amplifier has been designed to provide top-notch performance at an entry-level price..

We are confident that the Classic Power Amplifier will fully meet your expectations: your hi-fi system will show an incredible increase in its sonic performance, so prepare yourself now for a totally new listening experience!

Marco Manunta, CEO

Please record the serial number and date of purchase of your Classic Power Amplifier below for future reference.:

S/N: _____ Date of Purchase: _____

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1. Opening the Packaging and Positioning the Appliance

Place the box on a table and open it with a utility knife or knife, being careful not to damage the inner box. Remove the inner box and open it. The following items are included in the package::

- one Classic Power Amplifier;
- one power cable;
- two brackets for rack mount;
- four screws to mount the brackets;
- one pair of white cotton gloves.

If one or more items are missing, contact your dealer..

Remove the Classic Power Amplifier from the stratocell and place it on a stable surface, away from heat sources. Avoid direct sunlight. Leave ample space around the device to ensure adequate ventilation.

The Classic Power Amplifier is capable of delivering more than 250W continuous power into 4 ohms when operating at full power. Even if it is not operating at full power continuously, this device can produce considerable heat. Therefore, adequate air circulation around it is recommended.

Do not allow smoke, humidity, dirt, or water to reach the device. Please note that any signs of abuse will void the warranty.

Do not place the device on thick carpets, inside a box, or inside a piece of furniture, or in close contact with curtains.

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2. Front Panel

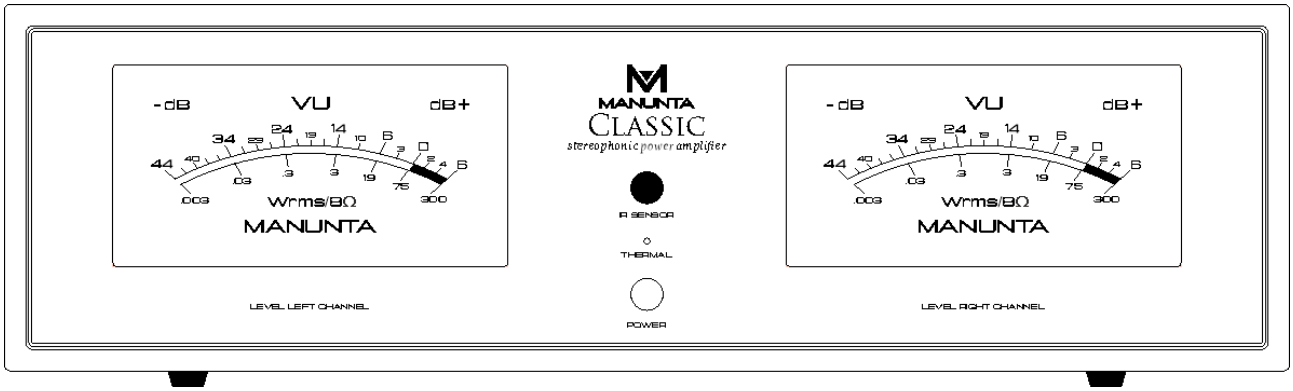

Figure 1

Level Meters (VU meters). These display the rms power level delivered into a theoretical 8-ohm load for each channel. A 0dB level equals the nominal power into 8 ohms. When the load driven has an impedance of 4 ohms, the power reading should be doubled.

Overheating warning LED (red "THERMAL"). When the temperature of the Classic Power Amplifier's power transistors exceeds 90°C, the internal controller puts the amplifier into standby and causes this LED to flash. Normal operation will resume automatically when the transistor temperature drops below 70°C.

Remote control receiver ("IR SENSOR"). Do not cover this port as this may prevent the unit from receiving commands from the included infrared remote control.

Power switch ("POWER"). Press to turn the unit on. Press again to turn it off.

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3. Back Panel

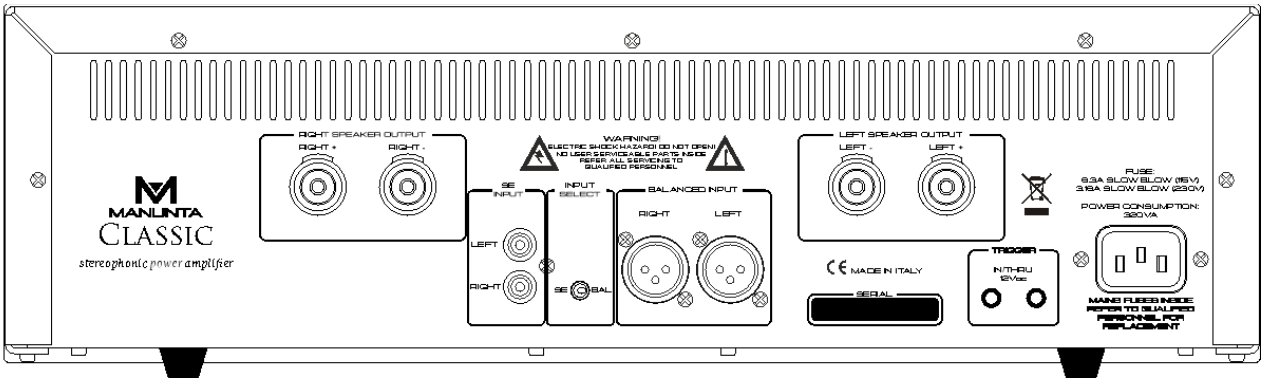

Figure 2

Right channel speaker terminals. Connect the right speaker to these terminals using a power cable of suitable section. The terminals accept both stripped wire and banana, spade or spade terminals.

Single-ended inputs. Connect the single-ended outputs of a preamplifier to these inputs. RCA female.

Input selector. Use this selector to choose the input on which the power amp will receive the signal.

Balanced inputs. Connect the balanced outputs of a preamplifier to these inputs. XLR female.

Left channel speaker terminals. Connect the speakers to these terminals using a power cable of suitable section. The terminals accept both stripped wire and banana, spade or spade terminals.

T**rigger pass-through inputs.** Through each of these trigger inputs it is possible to turn on the amplifier thanks to the activation voltage sent from another component of the system. If it is necessary to send the same trigger signal to another device, it is possible to take it from the unused trigger input of the Classic Power Amplifier, as the two inputs are connected to each other in parallel. This function is useful, for example, when the Classic Power Amplifier is used in two copies to bi-amplify the speakers: when you turn on the Classic Power Amplifier directly connected to the trigger output of the preamplifier, the Classic Power Amplifier whose trigger input is connected to the second input of the first amplifier will also automatically turn on, which in this connection acts as a pass-through. 3.5mm jack.

Power input. Connect the supplied power cable to this connector.

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3. Connecting and Powering the Appliance

WARNING: All connections between the Classic Power Amplifier and other devices in the system must be made with all devices turned off. Failure to do so may result in damage to the Classic Power Amplifier or other devices.

WARNING: To ensure compliance with European standards for electromagnetic compatibility, use connection cables no longer than 2m, both between the preamplifier and the Classic Power Amplifier and between this and the speakers.

See Chapter 2, “Rear Panel.”

Connect the speaker cables to the Classic Power Amplifier output terminals.

CAUTION: Never connect the positive (red) output terminals to ground. This could cause overload of the final stage and damage the amplifier.

Connect the preamplifier output to the single-ended input or balanced input on the Classic Power Amplifier. Select the desired input using the appropriate switch.

If you want the Classic Power Amplifier to be triggered by another device or multi-room controller, connect a mono cable with 3.5mm jack plugs between one of the Classic Power Amplifier's trigger inputs and the trigger output of the other device. Similarly, if you need to send the trigger signal to another device, connect a mono cable with 3.5mm jack plugs between the other trigger input on the Classic Power Amplifier (pass-through mode) and the trigger input of the other device.

NOTE: The trigger input operates in parallel with the main power switch, so the main power switch must not be pressed if you want the trigger to turn the Classic Power Amplifier on and off at mains power level. If the Classic Power Amplifier's main power switch is pressed, it will remain on regardless of the trigger signal level applied to its input.

Connect the included power cord to the Classic Power Amplifier's power jack and to a power outlet.

Use the front-panel power switch or the trigger input to turn on the Classic Power Amplifier.

4. Cleaning the Appliance

The Classic Power Amplifier should be cleaned with a soft, slightly damp cloth. Do not use alcohol or other detergents, as this may damage the unit.

Be careful not to drip liquid inside the unit. Any liquid dripping inside the unit will void the warranty.

Be careful not to scratch the aluminum front panel or damage the silkscreen.

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5. Level Indicators

The Classic Power Amplifier delivers a minimum power of 75Wrms per channel into 8-ohm speakers and 110Wrms per channel into 4-ohm speakers. Additionally, its dynamic performance (short-term power output) allows it to deliver up to 170Wrms into 8 ohms and 260Wrms into 4 ohms. This is sufficient for realistic listening in a medium-sized room with medium- or high-efficiency speakers. However, installations with low-efficiency speakers, especially in large rooms furnished with curtains, rugs, or carpeting, may require higher power.

The power output of the Classic Power Amplifier is displayed by the two needle level indicators (VU meters) on the front of the unit. If the needles spend a long time in the red zone on the VU meters, the amplifier may be subjected to excessive load and the thermal protection may activate. In this case, it is advisable to reduce the listening level or replace the speakers with more efficient ones or with a higher and/or less reactive load impedance.

6. Trigger

The Classic Power Amplifier accepts 12VDC trigger signals. A trigger signal can be used to automatically activate the Classic Power Amplifier from another device (a preamplifier, multi-room controller, or home automation system), so that the entire system is turned on and off via the power control of the device generating the trigger signal.

The trigger signal activates a relay connected in parallel with the main power switch, so the Classic Power Amplifier will always be on if the trigger signal is present on its input, regardless of whether the main power switch is on or off.

The Classic Power Amplifier's second trigger input is connected in parallel with the first, so the voltage supplied by the preamplifier can be sent to another device (for example, another Classic Power Amplifier) so that both are activated by the same trigger signal.

7. Adjusting the Brightness of the Level Indicators

The Classic Power Amplifier is equipped with an IR receiver that allows you to adjust the brightness (dimming) of the front panel indicators. The remote control is not included as it is the same one supplied with the Classic Preamplifier preamplifiers. If you use a preamplifier from another brand, you can request a remote control from Manunta by M2Tech.

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8. Precautions for Use

Please pay close attention to the following instructions to protect the device and your safety.

Never short-circuit the red speaker terminals together or with the black terminals: this will most likely blow the fuses protecting the power amplifier or damage the power transistors.

Never connect the amplifier to a power outlet with a voltage different from that indicated on the amplifier's packaging label: the power supply protection fuses may blow or the amplifier may be damaged.

Never cover the ventilation slots on the amplifier cabinet, as the power amplifier may overheat. Although the amplifier is protected against overheating, its operation would be prevented by the continuous activation of the thermal protection.

Do not insert any metal objects into the amplifier through the ventilation slots.

Be careful not to spill liquids inside the amplifier.

After moving the amplifier from a very cold and humid environment to a warmer one (for example, from the trunk of your car to your living room), wait for the amplifier to reach room temperature before turning it on.

If you suspect that one of the device's internal fuses is blown, do not attempt to operate the device yourself. Instead, contact a qualified technician to replace the fuse and inspect the device. Very often, fuses blow due to more or less visible damage to the device's circuitry.

9. Rack Mount

The Classic Power Amplifier can be mounted in a standard 19" rack using the supplied brackets. The brackets can be mounted to the sides of the unit if necessary.

Please note that the height of the Classic Power Amplifier is not a whole multiple of a rack unit; the brackets are designed to fit within a 3-units space.

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10. Technical Specifications

Output power:	75W_{rms} p.c. (1kHz @ 8 Ohm)
	110W_{rms} p.c. (1 kHz @ 4 Ohm)
	170W_{rms} (10ms, 1 kHz @ 8 Ohm)
	260W_{rms} (10ms, 1 kHz @ 4 Ohm)
Residual Noise:	30uVrms (20Hz-20kHz, A-weighted)
SNR:	108dB (A-weighted)
Sensitivity:	1,63V_{rms}
THD+N:	0,02% (1W_{rms} on 4 Ohm)
TIM:	0,04% (1W_{rms} on 4 Ohm)
Mains voltage:	110-130V_{AC} or 220-240V_{AC} (internally set)
	100V_{AC} (version for Japanese market)
	50/60Hz
Power consumption:	315VA
Fuses:	3.16A (230V_{AC}) or 6.3A (115V_{AC}) slow blow
Mains inlet:	IEC socket
Size:	420x120x300mm (w x h x d)
Weight	15kg (Appliance and ancillaries)
	18,2kg (packed)

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