

AMT PowerEater PE-15

AMT electronics

Team of engineers



AMT PowerEater PE-15
User's Manual



Thank You for purchasing the AMT PowerEater PE-15.

Please take the time to read through this manual to become acquainted with the AMT PE-15.

INTRODUCTION

AMT wants to present our new product – AMT PowerEater PE-15.

1. It is a LoadBox with the 8 Ohm impedance for low power guitar amplifiers (up to 15 Watts).

All guitarists well know that if you have a tube amplifier, it cannot be used without a load (a guitar cabinet). Using an amplifier without a load simply will “kill” it. So now many guitarists use LoadBoxes.

2. It has a power attenuator which lets you use a Guitar Cabinet with 10% of amp's output power.

3. It can be used as a DI-box with an up to 150 Watts power amplifier and a guitar cabinet. It lets you reduce a power amp's output signal to a line level (-10dBV).

1. Safety instructions:

WARNING!

Do not expose the PE-15 to rain, moisture, dripping or splashing water. Do not place objects filled with liquids, such as vases, etc, on or near the device.

WARNING!

Inside the device, there are no parts that are user-serviceable.
Repairs to the device may only be performed by qualified personnel.

Special Attention!

When in work, the PE-15 can be Hot.

*You have to be sure that the ventilation grilles are not closed
And there are no obstacles for the right air flow.

*Do not put the PE-15 near heat sources or inside a closed cabinet.

*Do not touch the internal loading resistors; they can be very hot when operating.

IGNORING THE ABOVE RULES CAN CAUSE THE DEVICE'S BREAKDOWN AND CAUSES THE LOST OF WARRANTY SERVICE!

2. How it works.

AMT Electronics PE-15 is a reactive load.

PE-15 lets you load your power amplifier by a reactive load equivalent (8 Ohm), which is close by its electrical parameters to a real guitar cabinet speaker. It can be used with tube or solid state amplifiers with the output power up to 15Watt.

PE-15 lets you "noiselessly" load your power amplifier and send the output signal of the amplifier (reduced by the level) to an external cabinet simulator (for example - Pangaea CP-100), to the input of your sound card for later processing by a software IR cabinet simulator.

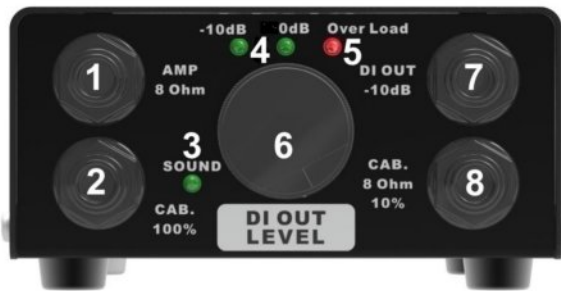
There is an opportunity to plug in a real guitar cabinet (into "CAB 100%" socket), in this case, the internal load equivalent will be switched off and your power amplifier will be working on the real guitar cabinet. In this case, the amp's output power can be as high as 150 Watts and PE-15 will work as a DI-box, it lets you reduce the amp's signal to a line level of your sound card or a mixer input.

PE-15 lets you plug in a cabinet (into "CAB. 8 Ohm 10%" socket) using only 10% of the power of your amplifier and the amplifier will be still fully loaded. It lets you use the guitar cabinet at low loudness.

Special schematic measures were implemented, which lets practically do not affect the character of amp's load when a cabinet is being plugged into the socket "CAB. 8 Ohm 10%". The cabinet gets the signal which has little difference from the amplifier output signal, only on a smaller level.

3. PE-15 Front Panel

Functions



1. “AMP 8 Ohm” – Jack Socket for Power amp output (load 8 Ohm).

2. “CAB 100%” – Jack socket for Cabinet connection, when the cabinet is connected, the internal load of PE-15 is switched OFF. In this case, PE-15 is used only as DI-box, which lets you reduce a power amp’s signal to a line level (-10dBV). An output power of a guitar amplifier may be as high as 150 Watts.

3. “SOUND” – LED indicator lights when the input signal is present.

4. “-10dB 0dB” – LED Peak Impulse Indicator of output signal level.

5. “OVERLOAD” – LED indicator lights when the input power exceeds 15 Watts. This indicator doesn’t work when a Guitar Cabinet is plugged in the “CAB 100%” socket.

6. “DI OUT LEVEL” - output signal’s regulator.

7. “DI Out -10dB” - direct power amplifier output signal reduced to -10 dBV
(The input resistance of a destination device ought to be more 10 kOhm)

8. “Cab. 8 Ohm 10%” – Jack socket for Guitar Cabinet connection (impedance 8 Ohm). When a cabinet is connected, the power amp is still fully loaded with the internal load equivalent and the cabinet gets 10% of the amp’s power. This socket can’t be used when a cabinet is plugged into “CAB 100%” socket.

WARNING!

8. “Cab. 8 Ohm 10%” – Jack socket for Guitar Cabinet connection (impedance 8 Ohm). When a cabinet is connected, the power amp is still fully loaded with the internal load equivalent and the cabinet gets 10% of the amp’s power. This socket can’t be used when a cabinet is plugged into “CAB 100%” socket.

5. Specification.

1. Net weight	700 g
2. Dimensions (Case only)	W 100mm H 46mm L110mm
3. Impedance	8 Ohm
4. Max power (internal load)	15 Watts

The complete set includes:

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3. Packaging	1
4. Warranty card	1