



# MICROMEGA

## OPERATING MANUAL

PW-250 - PW-400



Dear Customer,

Thank you for purchasing one of the two Micromega power amplifiers: PW-250 or PW-400. These amplifiers are mainly different by their output power. This manual is then common for the 2 models.

This unit provides ease of use and sonics of the highest quality. Please pay close attention to this instruction manual, and read it fully before attempting to operate. It is designed to ensure you maximise your pleasure of power amplifier and familiarise you with its many unique functions.

## CHECKING

Check that the carton has no damage. Should you have any doubt about its condition, please do not hesitate to contact your dealer.

## UNPACKING

Very carefully remove the unit from the box, taking care to preserve all the packing material. It is good practice to put the carton and its contents into an outer plastic bag and deposit it somewhere safe and dry. In the unlikely event that your unit needs to be sent back to either your dealer or distributor, it must be sent in the original packing material. Failure to observe this will invalidate your warranty.

## ACCESSORIES

Upon opening the carton you should find the following:

- Mains Lead.

## MAINS VOLTAGE

- Check that the mains voltage indicated on both the carton and the bottom of the unit correspond to the local power supply
- If you are in any doubt, consult your dealer.

## INSTALLATION

In order to obtain the maximum performance of your power amplifier, it is important to follow the installation instructions.

Wherever possible, we recommend that your amplifier is installed in an audio rack or other suitable furniture that provides sufficient ventilation.

### **WARNING!**

If for aesthetic or ease of use reasons, you choose to stack the units, it is imperative that you place your amplifier on the top. Never place any unit on top of your amplifier. We recommend that you provide a space of at least 30cm above your amplifier in order to ensure adequate ventilation.

## SIGNAL CONNECTION

Having verified that the mains voltage indicated on the bottom of the unit corresponds to the local power supply mains voltage and that the ON/OFF switch is on OFF position, connect the mains leads provided to the rear the unit and to the wall socket.

Connect the analog outputs of your preamplifier to the inputs of your power amplifier.

Your power amplifier provides two type of inputs: balanced inputs with XLR type connectors and unbalanced inputs with CINCH connectors. A switch located on the bottom of the unit near each leg on rear of the unit allows selecting which type of input will be used. By default the switch is on XLR position. If you do not want to use XLR inputs, switch to CINCH position.

**In any case the bad positioning of the input switch will not damage the amplifier or avoid using it. However, if the switch does not match the input you are using the amplifier will not operate properly.**

If you wish to use two stereo power amplifiers in passive bi-amping, your amplifiers are per-wired for this mode and you may then use only one modulation cable for each amplifier.

You will then need to ask your dealer for specific jumpers that will be inserted in the location near the input switches and labeled: **PASSIVE BIAMP BRIDGE**.

Once the jumpers inserted, you will be able to connect the input cable either on **IN-CH1** or **IN-CH2**. Both channels of your stereo amplifier will then output the same signal.

**We strongly recommend that you get in contact with your dealer or distributor if you decide to use your power amplifiers in this manner.**

## SPEAKER'S CONNECTION

Connect your loudspeaker cables between your amplifier and your loudspeakers paying attention to polarity.

Your power amplifier is fitted with double binding posts for each channel. It will then be easy to bi-wire your loudspeakers if they provide this possibility. If so, we strongly recommend it.

The very high quality speaker terminals accept different type of connections like bananas, or stripped up to 10mm<sup>2</sup> speaker wires. It is important to use quality speaker cable to get the maximum out of your amplifier.

## STANDBY LINK

Your power amplifier is equipped with jack connectors located above the Mains inlet and labeled: STANDBY LINK IN and OUT.

These connectors allow synchronizing the Standby In and Out of your amplifier with the Standby In and Out of your PA-20 or AP-180.

To take advantage of this functionality you must request a dedicated Micromega ST-LINK chord. This chord exists in different lengths or can be made to a specific length on request.

Connect the STANDBY LINK of your PA-20 or AP-180 to the STANDBY LINK IN of your power amplifier.

If you have more than one power amplifier you can daisy chain the units. After having connected the first unit as mentioned above, use another ST-LINK chord and connect the STANDBY LINK OUT of your first amplifier to the STANDBY LINK IN of the second one.

**In any case you MUST use Micromega ST-LINK chords to connect the units together. You could damage your equipment if you fail to do so.**

## ON - OFF

After all connections have been properly made you may now turn on your amplifier by switching the ON/OFF switch located at the back of the unit.

The led located in the middle of the front panel will light up in blue. Your power amplifier is in STBY mode.

Press once on the STBY key located below the led. The led will blink for 2 seconds and then light up with a different color and intensity. Your amplifier is now ON. If you had connected your power amplifier to your PA-20 or AP-180, you will have to turn on your system with the STBY key of your PA-20 or AP-180 or with the AMP or AVP key of your remote control handset.

When connected with the STANDBY LINK, you cannot turn your power amplifier on if your PA-20 or AP-180 is in STBY mode. However, if your system is ON, you can turn OFF your power amplifier by pressing on the STBY key of the power amplifier. This could be very useful for listening to headphones when you do not want to use your power amplifier.

## DEFAULT INDICATION

If a major fault would occur on one of the power modules, your amplifier will automatically turn to protection mode and the front led would light up in red.

If this happens, turn your power amplifier OFF using the ON/OFF switch located at the back of the unit. Turn your power amplifier ON again. If the led stays in red, you should bring your amplifier to your dealer for service.

**Audio Characteristics**

Output power per channel / 4Ω (PW-250) .....	250W
Output power per channel / 4Ω (PW-400) .....	400W
THD + Noise Pmax /2 (20Hz-20kHz) .....	< 0.05%
Output noise (20Hz-20kHz) .....	30µV
Input impedance .....	100kΩ
Output impedance (1kHz) .....	< 20mΩ
Frequency response (-3dB) .....	10Hz-50kHz
Voltage gain .....	26dB
Efficiency at Pmax .....	92%
Idle losses .....	8W
Stby current .....	10mA
Current limit .....	20A

**Power supply**

Electrical consumption (PW-250) .....	600 W
(PW-400) .....	900 W

**Dimensions** : (L x P x H mm) ..... 430 x 300 x 70

<b>Weight</b> (PW-250) .....	12.0 kg
(PW-400) .....	13.0 kg

**WARRANTY**

This warranty will start from the date of purchase of the Micromega product.  
 Statutory warranty regulations apply in the country where the Micromega product was purchased. In case of complaints please contact the dealer who supplied your Micromega product.

**WARNING: Warranty will be nulled if the unit is not shipped back in its original packing or if the serial number has been modified or erased.**

Warranty certificate

Dealer's stamp

Date of purchase \_\_\_\_\_

Serial N° \_\_\_\_\_

