

**Power Dynamics BHW Series Speaker**



# Power Dynamics BHW Series Speaker Instruction Manual

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**Power Dynamics BHW Series Speaker**



## Specifications

- Product Name: BHW Series Speaker
- Model Numbers: 952.180; 952,182; 952,184; 952,186; 952,188; 952,190; 952,192; 952,194
- Version: V1.1

## Product Usage Instructions

### Important Safety Instructions:

Prior to using the unit, it is essential to follow these safety guidelines:

- Consult a specialist before initial use.
- A slight smell may occur when the unit is switched on for the first time, which is normal.
- Avoid opening the housing due to voltage-carrying parts inside.
- Avoid placing metal objects or liquids into the unit to prevent electrical shock and malfunction.
- Avoid placing the unit near heat sources, on vibrating surfaces, or covering ventilation holes.
- Do not use the unit continuously.
- Avoid damaging the mains lead.
- Avoid repeatedly switching the fixture on and off.
- Keep the unit out of reach of children and do not leave it unattended.
- Avoid using cleaning sprays on switches and seek advice from a specialist in case of malfunction.
- Avoid forcing the controls.

### Low Impedance Operation:

The BHW series speaker operates in low impedance mode with a nominal impedance of 8. When connecting multiple speakers in parallel, ensure compliance with the amplifier's specifications on minimum allowed impedance. Most amplifiers support a minimum of 4 impedance, allowing for two BHW series speakers connected in parallel.

## FAQ

- **Q: Can I open the housing of the unit?**

- A: No, please do not open the housing as it contains voltage-carrying parts.

- **Q: What should I do if the unit malfunctions?**

- A: In case of malfunction, always seek advice from a specialist to avoid any further damage or risks.

- **Q: Is it safe to use cleaning sprays on the switches?**

- A: No, it is not recommended to use cleaning sprays on switches as they may cause dust and grease deposits. Seek professional advice in case of cleaning needs.

## Product Information

Congratulations to the purchase of this Power Dynamics product. Please read this manual thoroughly prior to using the unit in order to benefit fully from all features.

Read the manual prior to using the unit. Follow the instructions in order not to invalidate the warranty. Take all precautions to avoid fire and/or electrical shock. Repairs must only be carried out by a qualified technician in order to avoid electrical shock. Keep the manual for future reference.

- Prior to using the unit, please ask advice from a specialist. When the unit is switched on for the first time, some smell may occur. This is normal and will disappear after a while.
- The unit contains voltage carrying parts. Therefore do NOT open the housing.
- Do not place metal objects or pour liquids into the unit This may cause electrical shock and malfunction.
- Do not place the unit near heat sources such as radiators, etc. Do not place the unit on a vibrating surface. Do not cover the ventilation holes.
- The unit is not suitable for continuous use.
- Be careful with the mains lead and do not damage it. A faulty or damaged mains lead can cause electrical shock and malfunction.
- When unplugging the unit from a mains outlet, always pull the plug, never the lead.
- Do not plug or unplug the unit with wet hands.
- If the plug and/or the mains lead are damaged, they need to be replaced by a qualified technician.
- If the unit is damaged to such an extent that internal parts are visible, do NOT plug the unit into a mains outlet and DO NOT switch the unit on. Contact your dealer.
- To avoid fire and shock hazard, do not expose the unit to rain and moisture.  
All repairs should be carried out by a qualified technician only.
- Connect the unit to an earthed mains outlet (220-240Vac/50Hz) protected by a 10-16A fuse.
- During a thunderstorm or if the unit will not be used for a longer period of time, unplug it from the mains. The rule is: Unplug it from the mains when not in use.
- If the unit has not been used for a longer period of time, condensation may occur. Let the unit reach room temperature before you switch it on.
- Never use the unit in humid rooms or outdoors.
- To prevent accidents in companies, you must follow the applicable guide lines and follow the instructions.
- Do not repeatedly switch the fixture on and off. This shortens the life time.
- Keep the unit out of the reach of children. Do not leave the unit unattended.
- Do not use cleaning sprays to clean switches. The residues of these sprays cause deposits of dust and grease.  
In case of malfunction, always seek advice from a specialist.

- Do not force the controls.
- This unit is with speaker inside which can cause magnetic field. Keep this unit at least 60cm away from computer or TV.
- If this product have a built-in lead-acid rechargeable battery. Please recharge the battery every 3 months if you are not going to use the product for a long period of time. Otherwise the battery may be permanently damaged.
- If the battery is damaged please replace with same specifications battery. And dispose the damaged battery environment friendly.
- If the unit has fallen, always have it checked by a qualified technician before you switch the unit on again.
- Do not use chemicals to clean the unit. They damage the varnish. Only clean the unit with a dry cloth.
- Keep away from electronic equipment that may cause interference.
- Only use original spares for repairs, otherwise serious damage and/or dangerous radiation may occur.
- Switch the unit off prior to unplugging it from the mains and/or other equipment. Unplug all leads and cables prior to moving the unit.
- Make sure that the mains lead cannot be damaged when people walk on it. Check the mains lead before every use for damages and faults!
- The mains voltage is 220-240Vac/50Hz. Check if power outlet match. If you travel, make sure that the mains voltage of the country is suitable for this unit.
- Keep the original packing material so that you can transport the unit in safe conditions.

This mark attracts the attention of the user to high voltages that are present inside the housing and that are of sufficient magnitude to cause a shock hazard. This mark attracts the attention of the user to important instructions that are contained in the manual and that he should read and adhere to. The unit has been certified CE. It is prohibited to make any changes to the unit. They would invalidate the CE certificate and their guarantee!

**NOTE:** To make sure that the unit will function normally, it must be used in rooms with a temperature between 5°C/41°F and 35°C/95°F.

Electric products must not be put into household waste. Please bring them to a recycling centre. Ask your local authorities or your dealer about the way to proceed. The specifications are typical. The actual values can slightly change from one unit to the other. Specifications can be changed without prior notice. Do not attempt to make any repairs yourself. This would invalid your warranty. Do not make any changes to the unit. This would also invalid your warranty. The warranty is not applicable in case of accidents or damages caused by inappropriate use or disrespect of the warnings contained in this manual. Power Dynamics cannot be held responsible for personal injuries caused by a disrespect of the safety recommendations and warnings. This is also applicable to all damages, in whatever form.

## UNPACKING INSTRUCTION

**CAUTION!** Carefully unpack the box upon receipt. Check the contents to ensure that all parts are present and have been received in good condition. Notify the shipper immediately and retain packaging material if any parts appear damaged from shipping or the package itself shows signs of mishandling. Save the package and all packaging materials. If the product must be returned, it is important that the product is returned in the original factory box and packaging.

If the device has been exposed to drastic temperature fluctuation (e.g. after transportation), do not switch it on immediately. The arising condensation water might damage your device. Leave the device switched off until it has reached room temperature.

## OPERATION



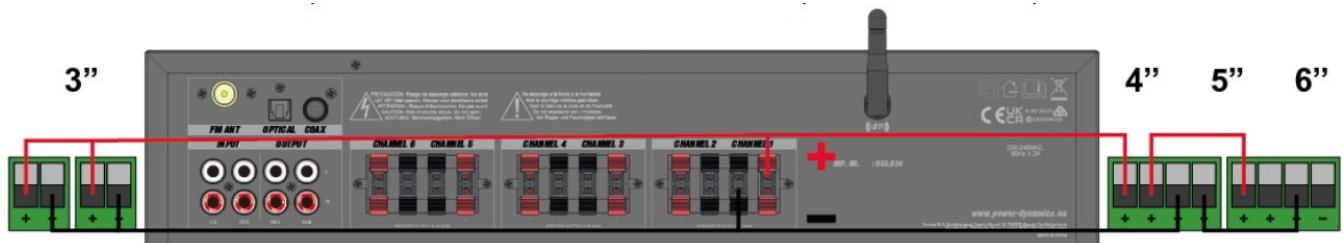
The BHW series speaker is functional both in low impedance-, as well as in 100V/70V use. Use the rotary switch (pictured) to set the speaker in the correct working mode. In below case, the speaker is configured to work in 8 Ohm ( $\Omega$ , low impedance) setup.

NOTE: Cabling of a 70/100V system may only be carried out by a qualified electrician! The total load must not exceed the rated power of the amplifier. If the 70/100V system is turned on, turn it off before connecting. Make sure the rotary switch on the speaker is turned to “off” before connecting.

CAUTION: Never set the switch to “—” position for 100V line operation, as doing so may result in unreparable damage.

### LOW IMPEDANCE

The low impedance mode of the BHW series speaker has a nominal impedance of 8 $\Omega$ . If there is the need to connect multiple speakers in parallel, be sure to follow the amplifier's specifications regarding the minimum allowed impedance. Most amplifiers allow for a minimum of 4 $\Omega$  impedance, which translates to two BHW series speakers connected in parallel.



### 70/100 VOLT

Use the rotary switch to configure the desired power tap when using the BHW series speaker in 70/100V configuration. Make sure you are using a powerful enough amplifier for your setup of BHW series speakers. It is recommended to have about 20% of reserve power. In below case of the 6'' model (100V), you will need at least roughly 140W of amplifier power ( $(40+40+40) \times 1.2 = 144W$ ).

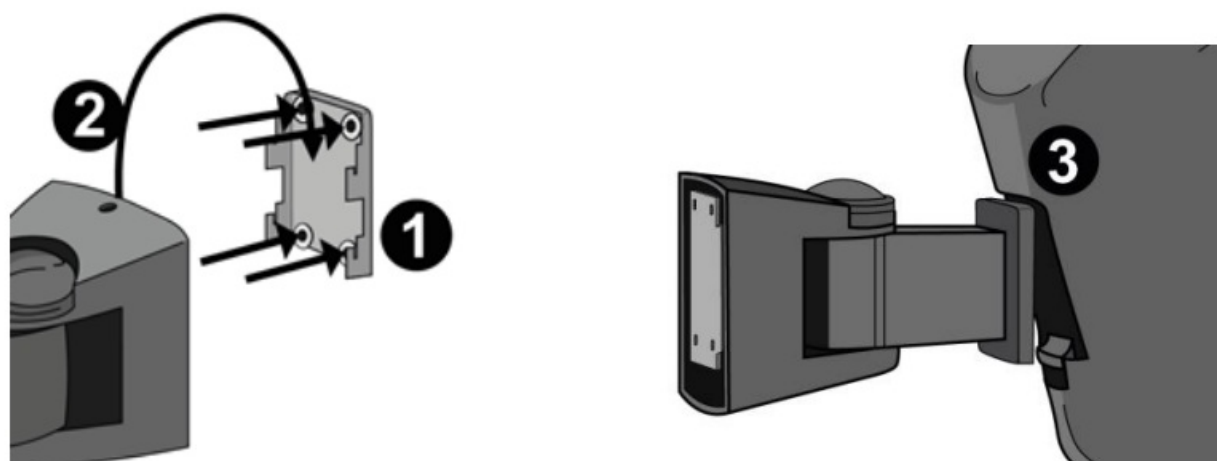


## MOUNTING

1. Install the metal attachment to the wall using the appropriate screws first.
2. Attach the bracket to the metal attachment with a direction from top to bottom. The speaker-bracket attachment is equipped with metal contacts allowing for mounting in four directions, enabling installation with enhanced

flexibility.

- To attach the speaker to the bracket, please hold the speaker in an angle so that the top part of the bracket can be inserted into the speaker first. Then insert the bottom part of the bracket into the speaker until the bracket is clicked and locked.



## TECHNICAL SPECIFICATION

	BHW30		BHW40		BHW50		BHW60	
Ref. nr.	952.180	952.182	952.184	952.186	952.188	952.190	952.192	952.194
Output power: Max	40W		60W		80W		120W	
Output power: RMS	20W		30W		40W		60W	
Tweeter type	Dome							
Diameter tweeter	1/2"						1"	
Diameter woofer	3"		4"		5.25"		6.5"	
Magnet type	Ferrite							
Impedance	8 Ohm, 100V							
Tappings 100V	2.5W, 5W, 10W		5W, 10W, 20W		7.5W, 15W, 30W		10W, 20W, 40W	
Tappings 70V	1.25W, 2.5W, 5W, 10W		2.5W, 5W, 10W, 20W		3.75W, 7.5W, 15W, 30W		5W, 10W, 20W, 40W	
Frequency response (±3dB)	120Hz-20KHz		100Hz-20KHz		85Hz-20KHZ		65Hz-20KHz	
Frequency response (-10dB)	105Hz-20KHz		85Hz-20KHz		75Hz-20KHz		55Hz-20KHz	
SPL @ 1W/1m	81dB		84dB		87dB		89dB	
SPL max @ 8 Ohm	94dB		99dB		103dB		107dB	
SPL max @ 100V	91dB		97dB		101dB		105dB	
Dispersion	120°							
IP rating	IPX5							
Operating temperature	-20 °C ~ 60 °C							
Dimensions (LxWxH)	150x106x114mm		200x140x135mm		250x175x156mm		303x215x190mm	
Weight	0.84kg		1.25kg		1.60kg		2.40kg	

The specifications are typical. The actual values can slightly change from one unit to the other. Specifications can be changed without prior notice. The products referred to in this manual conform to the European Community Directives to which they are subject:

### European Union

- Tronios B.V.,
- Bedrijvenpark Twente Noord 18,
- 7602KR Almelo, The Netherlands
- 2014/35/EU

- 2014/30/EU
- 2011/65/EC

## United Kingdom


- Tronios Ltd.,
- 130 Harley Street,
- London W1G 7JU, United Kingdom
- S.I. 2016:1101
- S.I. 2016:1091
- S.I. 2012:3032

Specifications and design are subject to change without prior notice.






- [www.tronios.com](http://www.tronios.com)

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## Documents / Resources

 <p><b>Power Dynamics</b> Professional Audio</p> <p><b>BHW Series Speaker</b> BHW Series, BHW Series Speaker, Speaker</p> <p>INSTRUCTION MANUAL GEbruiksaanwijzing BEDRIJFSANLEITUNG MANUAL DE INSTRUCCIONES MANUAL DE INSTRUÇÕES NÁVOD K POUŽITÍ</p>	<p><a href="#">Power Dynamics BHW Series Speaker</a> [pdf] Instruction Manual BHW Series, BHW Series Speaker, Speaker</p>
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## References

-  [Samen zijn we open. Samen staan we sterk. - Stichting Open](#)
-  [Samen zijn we open. Samen staan we sterk. - Stichting Open](#)
-  [Sound & Light distributor - Tronios.com](#)
-  [Homepage - Wecycle](#)
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