

Mono-Amplifier 700

User Manual



soulution
nature of sound



Dear client

We are proud that you decided yourself for a solution amplifier. You have acquired an amplifier with outstanding sonic performance which you will enjoy for many years.

We understand your eagerness to get started but even though please study this manual step by step before you integrate the mono-amplifier 700 in your High Fidelity system. This manual contains also useful tips for the optimisation of your overall HiFi-system.

If there are any questions regarding the start-up or operation of your mono-amplifier 700 please do not hesitate to contact your dealer.

Have fun!



Your solution - team



CE-Declaration of Conformity

Spemot AG declares that this product is in conformance with the following directives and standards:

Low Voltage Directive 2006/95/EG (EN/IEC 60065:2002)

Electromagnetic 2004/108/EG (EN 55013:2001, EN 55020:2002, EN 61000-3-2:2006, EN 61000-3-3:1995)

FCC-Notice

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- adjust or relocate the receiving antenna
- increase the separation between the equipment and the receiver
- connect the equipment into an outlet on a circuit different from that to which the receiver is connected
- consult the dealer or an experienced radio/TV technician for help

Disposal

According to the Directive 2002/96/EG of the European Parliament used consumer-electro technical appliances have to be disposed separately and have to be indicated with the following symbol.



In the case of disposal of this component please do so in conformity with legal and environmental regulations.



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1 Quick Start

Unpacking	<p>Unpack the mono-amplifier 700 and store the packing for future transportations.</p> <p><u>Security advice:</u> Never lift the mono-amplifier 700 by yourself. Take the required precautions for the transport of an apparatus of this weight. (ca. 96 kg)</p>
Positioning	<p>Position the mono-amplifier 700 on a stable base that is able to support min. 100 kg.</p> <p><u>Security advice:</u> Cooling air must be able to circulate and escape unrestricted.</p>
Cabling	<p>Disconnect all electrical appliances of your HiFi-system from the mains supply. Connect your mono-amplifier 700 with your pre-amplifier (according to user manual). Use the respective signal cables and the cable for the LINK-system. Connect the mono-amplifier 700 with your loudspeakers. Reconnect the mono-amplifier 700 and all other components of your HiFi-system with mains supply. Please use the enclosed high class mains cable.</p> <p><u>Security advice:</u> While manipulating with cables the mono-amplifier 700 has to remain disconnected from the mains. Check the cables for tight fit or eventual damages of the cables potentially leading to short circuits.</p>
Settings	<p>Define the brightness of the display, the start-input, start-mode, as well as the operation-mode.</p> <p><u>Security advice:</u> Start-mode ON should only be used if the mono-amplifier 700 cannot be controlled via the front-panel and the LINK-connection is not available.</p>
Switch on	<p>Switch on your source devices and preamplifier. Turn down the volume of the preamplifier to a minimal level. Switch on your mono-amplifier 700.</p> <p><u>Security advice:</u> Before you switch on your mono-amplifier 700 for the first time the Start-Mode must be OFF.</p>



2 Important security advices:

User Manual:

Read this user manual carefully before you start-up your mono-amplifier 700 and follow all installation and security advices.

Please keep this user manual. In the case this manual gets lost you have the possibility to download it from the soulution-webpage.

(<http://www.soulution-audio.com/downloads>)

Mains:

Exclusively use 3 phase power cords with ground conductor. They may not be crushed by objects.

Unplug your mono-amplifier 700 from the mains connection in the following cases:

- before you manipulate with cables
- before cleaning
- during thunder storms or
- before you leave for longer periods

Operation:

Never run your mono-amplifier 700

- with opened housing
- with closed cooling-slots
- with high ambient temperatures (>40°C)
- close to heat sources like radiators, heatings, ovens or similar appliances dissipating heat
- with extremely high humidity for example in humid cellars or rooms similar humidity
- close to water (Sink, bathtub, or similar equipment)



Cleaning:

Use a soft and dry towel. We suggest using a non abrasive micro fibre towel. Please do not use any solvents or liquidities.

Transport:

Use only with the cart, stand, tripod, bracket or table specified by the manufacturer or sold with the apparatus. When a cart is used, use caution when moving cart/apparatus combination to avoid injury or tip over.

Packing:

Please keep the original packing for future transports. The original packing provides optimal protection against potential damages.

Service:

Do not try to repair your mono-amplifier 700 by yourself. It needs a service check by a qualified person in the following cases:

- the mains-cable or the mains connectors are damaged
- foreign substances or liquidity has entered the mono-amplifier 700
- the mono-amplifier 700 has seen rain
- the mono-amplifier 700 seems to malfunction
- the mono-amplifier 700 has fallen to the floor or the housing is damaged

Serial-Nr.: **700 -**

Please note the serial-number of your mono-amplifier 700 above.



3 Technical Highlights

3.1 Layout

The mono-amplifier 700 is a bridged amplifier. Each mono-amplifier has two identical amplification units. In operation mode “Bridged” the two amplification units work with inverted phase with respect to each other. In operation mode “Bi-Amping” they work in phase. The layout is optimised towards shortest signal paths. For minimal losses the mono-amplifier 700 has massive copper rails for all high current signal paths.

3.2 Amplification circuit

Core of the mono-amplifier 700 is a new voltage amplifier which works without any feedback to the input (no differential amplification). It is built from linearised amplification units that run up to a frequency of 80 MHz.

Per channel fourteen bipolar power transistors fixed on a massive copper rail and permanently temperature controlled for a constant idle current, provide finally for the gigantic current rating of the soulution 700 of more than 60 ampere.

3.3 Idle current management

The input signal of the mono-amplifier 700 is constantly monitored. The idle current is automatically reduced whenever there is no input signal available (after 10 minutes). This reduces the power consumption to approx. 150W while you are not listening to music. Additionally the average temperature of the mono-amplifier 700 is reduced. This enlarges lifetime of all electronic components.

As soon as there is music available at the inputs of the mono-amplifier 700 the idle current is automatically increased to the optimal level, ensuring perfect performance.



3.4 Power supply

With the given linearity of the amplifier-stages it is in our view finally the stability of the supply voltages, being the power supply unit, deciding if a properly working amplifier is truly well sounding. The power supply unit of the mono-amplifier 700 is equipped with two 1'000VA- toroidal transformers, capacitors with a total capacity of nearly 250'000 microfarad and discrete rectifiers.

In order to omit interferences from the digital circuits to the amplifiers outputs the mono-amplifier 700 uses separate power supplies for these circuits. All in all we use 10 separated power supply units.



4 Start of operation and handling of the mono-amplifier 700

Please take care while installing the mono-amplifier 700. Follow all security advices!

4.1 Scope of delivery and packing

Please check the scope of delivery:

- Mono-amplifier 700
- mains cable
- user manual
- 2 pair cotton-gloves

Please store the packing of the mono-amplifier 700 for future transports. Check your mono-amplifier 700 for transport damages. In the case your mono-amplifier 700 is damaged please contact your soulution dealer.

Security advice: If your mono-amplifier 700 is still very cold from the transport, please let it warm within the packing, in order to omit condensation of water inside your mono-amplifier 700.

The mono-amplifier 700 has a high quality surface. Please be careful while transporting your mono-amplifier 700 so that the surface does not get scratched. Please use the enclosed cotton gloves.

Never position your mono-amplifier 700 on the front panel. The display glass could get scratched or even burst.

4.2 Optimal positioning of your mono-amplifier 700

There are no limitations on where to position your mono-amplifier 700. We suggest positioning the mono-amplifier 700 so that the connecting cables to the loudspeakers and the preamplifier remain short.

Please ensure ample distance to other components for unhindered circulation and dissipation of cooling air.



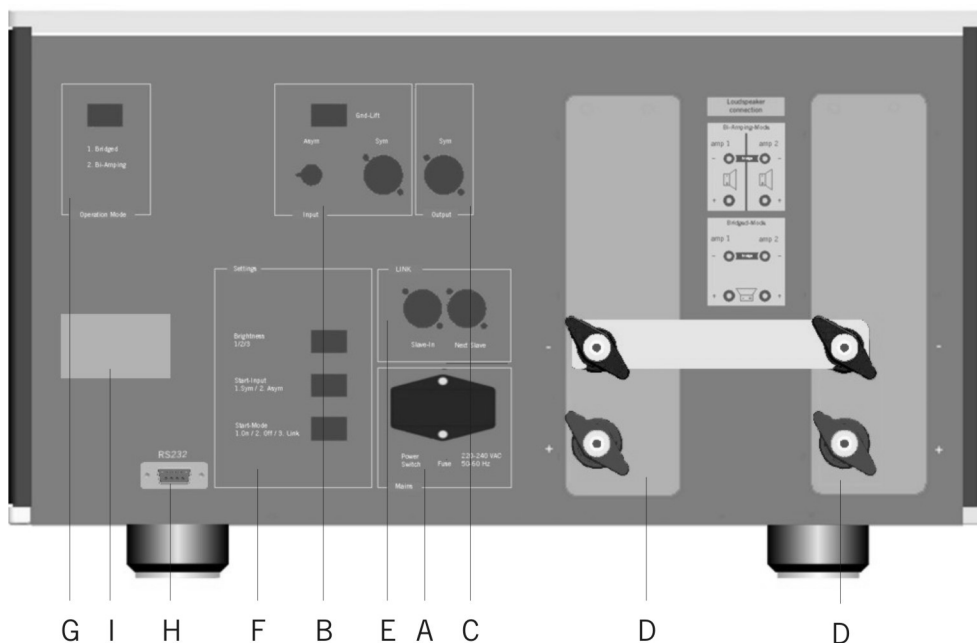
The mono-amplifier 700 reaches an operating temperature of ca. 45°C. The speed controlled fan will only be used if the ambient temperature is significantly above 25°C or if you listen at high volumes for longer periods.

Security advice: **Never lift the mono-amplifier 700 alone!**

The mono-amplifier 700 has a weight of 96 kg. Ensure that nobody gets insured while transporting your mono-amplifier 700. Please ensure that you do not squeeze your fingers or feet. (do not tip over laterally!)

Check whether the base is able to hold at least 96 kg. In case of doubt position your mono-amplifier 700 on the floor.

4.3 Rear panel of the mono-amplifier 700



Rear panel of the mono-amplifier 700

4.3.1 Mains (A)

Connect the mono-amplifier 700 with the mains supply. Amplifiers with high power ratings require high quality mains installation. Poor quality of the mains installation



can reduce the sonic performances or even provoke malfunction. The enclosed power cord is optimised for this application.

After switch-on the standby-power supply of the mono-amplifier 700 gets started. The display shows "WAIT". As soon as constant conditions are reached the mono-amplifier 700 changes to operating condition OFF (red LEDs in display).

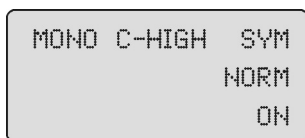
Security advice: Only switch-off the mains connection if your mono-amplifier 700 is in operating condition OFF.

4.3.2 Input (B)

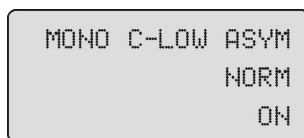
Your mono-amplifier 700 has a symmetrical and an asymmetrical signal input. For longer connecting cables we suggest to use the symmetrical inputs. For shorter signal paths also asymmetrical cables warrant a high class connection. Top quality connecting cable and optimal layout prerequisite. The asymmetrical input has a slightly inferior signal to noise ratio than the symmetrical input due to the additional amplification stage in the signal path.

The input signal of the mono-amplifier 700 is permanently monitored. The idle current is automatically reduced whenever there is no input signal available (after 10 minutes). In the operating condition Silence ON the power consumption is reduced to approx. 150W. The mono-amplifier 700 keeps the optimal operating temperature without burning too much energy.

As soon as there is music available at the inputs of the mono-amplifier 700 the idle current is automatically increased to the optimal level, ensuring perfect performance.



Display in operating condition ON, operation-mode „Bridged“, symmetrical input active



Display in operating condition ON, operation-mode „Bridged“, symmetrical input active

Security advice: Please follow the security advices on page 6!



While manipulating with cables the mono-amplifier 700 has to remain disconnected from the mains. Before you disconnect the mains the mono-amplifier 700 has to be in operating condition OFF.

Due to the very high current impulse rating of your mono-amplifier 700 a wrong cabling or defective cables may destroy your loudspeakers.

Excessive volumes due to in appropriate handling may cause hearing damages.

4.3.3 Output (C)

If you use several mono-amplifiers per channel you can connect the Output, only balanced connectors available, with the input of the next amplifier. This optimises the cabling for your system.

Connect the NF-out with the input of the next mono-amplifier.

Security advice: Please follow the security advices on page 6!

While manipulating with cables the mono-amplifier 700 has to remain disconnected from the mains. Before you disconnect the mains the mono-amplifier 700 has to be in operating condition OFF.

Due to the very high current impulse rating of your mono-amplifier 700 a wrong cabling or defective cables may destroy your loudspeakers.

Excessive volumes due to in appropriate handling may cause hearing damages.

4.3.4 Speaker (D)

Connect your loudspeakers to the amplifier. The tremendous stability of the solution 710 ensures optimal operation for all types of speaker cables. We recommend using top quality speaker cables. The operation-mode „Bridged“ or „Bi-Amping“ is selected with the operation-mode switch.



Cabling in operation-mode „Bridged“:

Connect the loudspeaker cable to the red binding posts of “amp1” and “amp2”. Please ensure that you connect left and right loudspeaker exactly the same way. If you switch plus and minus polarity of the loudspeaker connection between right and left loudspeaker, they will play out of phase.

Ensure that the two white binding posts are connected (bridged) with the massive copper rail.

Cabling in operation-mode „Bi-amping“:

Connect one loudspeaker cable with „amp1“, the other with „amp2“.

Ensure that the two white binding posts are connected (bridged) with the massive copper rail.

Security advice: Please follow the security advices on page 6!

While manipulating with cables the mono-amplifier 700 has to remain disconnected from the mains. Before you disconnect the mains the mono-amplifier 700 has to be in operating condition OFF.

Check the connectors for tight fit. Check the cables for eventual damages. Short circuits provoked by thin threads from loudspeaker cables may end in a fire.

Please ensure that the cabling and the operation-mode setting correspond. Wrong cabling leads in any case to a malfunction of the mono-amplifier 700. If the cabling is done for operation-mode “Bridged” and the mono-amplifier is in operation-mode “Bi-Amping” there will be no audible music signal from the loudspeakers. The loudspeakers can not be damaged in this case. If you do the cabling according to operation-mode “Bi-Amping” and let the mono-amplifier 700 work in operation-mode “Bridged” the loudspeaker can potentially get damaged, depending on the layout of the loudspeakers crossover.



4.3.5 LINK (E)

With the LINK-system the amplifier can be remote controlled by the preamplifier 720/721. Connect the Slave-In of your mono-amplifier 700 with the Master-out of the preamplifier 720/721. With Next-Slave you may connect further components to the LINK-network.

4.3.6 Settings (F)

With the settings you are able to define the operating conditions of the mono-amplifier 700 after switch on of the mains.

Important: New settings of start-mode, start-input and brightness will only get active after switch on of the mains switch.

4.3.6.1 Start-Mode

Start-Mode defines the operating condition after switch-on.

Start-Mode ON:

After switch on of the mains the mono-amplifier 700 is started automatically. It can only be switch-off after it has reached the operating condition ON.

Start-Mode OFF:

After switch on of the mains the mono-amplifier 700 changes to the operating condition OFF.

Start-Mode LINK:

After switch on of the mains the operating condition of the mono-amplifier 700 gets controlled by the preamplifier. If the LINK-connection is missing the mono-amplifier 700 changes to operating condition OFF.

Security advice: We suggest the use of Start-Mode ON only if the front panel of the mono-amplifier 700 is not access able and the LINK – system is not installed.

Please be aware that the mono-amplifier will start-up automatically and unattended after power blackout.



4.3.6.2 Start-Input

With Start-Input the active input after switch-on is defined (1. SYM / 2. ASYM).

4.3.6.3 Brightness

The brightness of the display can be changed in three levels (1=low / 2=medium / 3=high).

4.3.7 Operation-Mode (G)

With switch (F) you can define the operation-mode the mono-amplifier 700. It is not possible to switch the operating mode during operation. The new setting of the switch (F) is only accepted after you have switched on the mains.

Bridged: Display shows "MONO-AMP"

Bi-Amping: Display shows "DUAL-AMP"

If the mono-amplifier 700 shows ERR or remains in operating condition P ON please check the cabling.

4.3.8 RS232 – Interface (H)

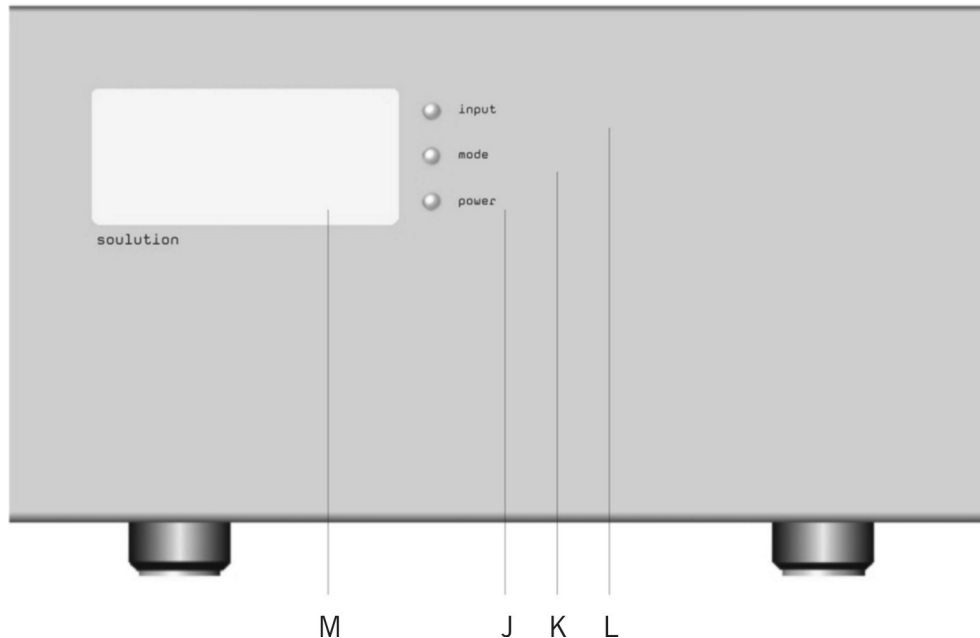
The power amplifier 710 can be remote controlled through the RS232 interface. All functions can be controlled and relevant information is provided to the control unit.

4.3.9 Type label (I)

Please note the serial number of your mono-amplifier 700 on page 7 of this user manual. This allows you to have the product specific data at hand without removing your mono-amplifier from the HiFi rack.



4.4 Front panel of mono-amplifier 700



Front panel of mono-amplifier 700

4.4.1 Power (J)

With the Power-button you define the operating condition ON or OFF (red LEDs). In operating condition OFF the loudspeaker terminals are muted. The loudspeaker terminals are only activated if the mono-amplifier 700 is ready for operation and if no errors are present.



Display after switch on of the mains switch



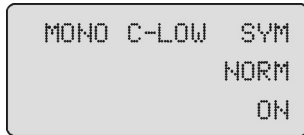
Display in operating condition OFF

4.4.2 Mode (K)

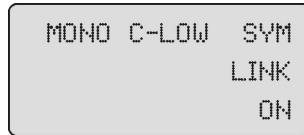
LINK function delegates the control of the start-up sequence to the preamplifier 720/721. The preamplifier 720/721 is the master of this master-slave control. In



mode NORM the control over the start-up sequence remains with the mono-amplifier 700 independently of a connected LINK-cable.



Display in operating condition ON;
Operation-mode „Bridged“;
Input symmetrical;
Mode NORM



Display in operating condition ON;
Operation-mode “Bridged”;
Input symmetrical;
Mode LINK,



Display in operating condition ON;
Operation-mode “Bi-Amping”;
Input asymmetrical;
Mode NORM

The power button remains always active. The mono-amplifier soulution 700 can always be switched off via the front panel.

4.4.3 Input (L)

Your mono-amplifier 700 has symmetrical (SYM) and asymmetrical (ASYM) input connectors. The selection is made comfortably at the press of a button on the front panel. The non active input is terminated. We suggest the use of the symmetrical connectors if possible.

4.4.4 Display (M)

The display shows all operating conditions of the functions Power, Mode and Input. If an error occurs during the start-up sequence or during operation the mono-amplifier 700 is switched off and lowest column shows ERR1..ERR3.



Display in operating condition
ERR1



5 Protection functions of the mono-amplifier 700

Comprehensive protection functions ensure safe operation and a long lifetime. The mono-amplifier 700 has the following protection functions:

Level limitation:

For too high levels at the input of the mono-amplifier 700 the soft clip circuit is activated. The activated soft clip circuit will distort the output signal significantly, the sonic performance is reduced. Please ensure that the input levels are within the limit of 1.8 Vrms.

Overcurrent:

If the output current to the loudspeakers exceeds 60 A the mono-amplifier 700 is switched off automatically. This represents a maximal impulse power rating of ca. 10'000 W (96 V @ 0.8Ω)

Overtemperature:

The temperature of the power transistors is permanently monitored. If the maximal operating temperature is exceeded despite of active cooling system the mono-amplifier 700 is switched off automatically.

Fuse

The mains connection has a fuse which protects your mono-amplifier 700 against too high power consumption. Please replace with the same fuse type. The fuse is located within the mains switch on the rear side of the mono-amplifier 700.

Model 230 V, 50-60Hz	10A/T 250V micro fuse 5x20mm
Model 220 V, 60Hz	10A/T 250V micro fuse 5x20mm
Model 120 V, 50-60Hz	16A/T 250V micro fuse 5x20mm
Model 100 V, 50-60Hz	16A/T 250V micro fuse 5x20mm



6 Trouble shooting

Error	Action
No display	Check the cabling to the mains supply. Eventually replace the fuse of your mono-amplifier 700.
No music	Check the cabling to your preamplifier and the loudspeakers, whether the correct input (SYM/ASYM) is activated, whether the preamplifier is switched on and if the right source has been selected. Check whether output signal at your source and preamplifier is available. (Mute, Pause, etc.).
ERR1..3 after switch on	Switch off the mains of your mono-amplifier 700 for 15 seconds and switch on again. If the error has not disappeared please contact your soulution dealer.
ERR1..3 after OFF -> ON	Check the cabling, the mains voltage (Over-/Under voltage) and the level of the input signal. If the error has not disappeared please contact your soulution dealer.
ERR1..3 in operation	Switch off the mains of your mono-amplifier 700 for 15 seconds and switch on again. If the error has not disappeared please contact your soulution dealer.

6.1 Actions after the appearance of an error

If you can not identify the error please disconnect the mains supply (before you disconnect the mono-amplifier 700 has to be in operating condition OFF) and contact your soulution dealer.



7 Care and maintenance

7.1 Burn-In

The mono-amplifier 700 will play on top level immediately after the first placing into operation. However during the first 20-50 hours of operation you will notice a further improvement of its sonic qualities.

7.2 Longlife-precautions

We use only highest quality components for the mono-amplifier 700. Components prone to aging are kept under constant voltages in stand-by (OFF) condition in order to further increase their lifetime. In stand-by (OFF) condition the mono-amplifier 700 dissipates ca. 14 Watts.

Security advice:

You should disconnect the mono-amplifier 700 from the mains supply when you make a journey or if you are absent for longer time periods. Before you disconnect the mains the mono-amplifier 700 has to be in operating condition OFF.

7.3 Cleaning

Please use a soft towel for the cleaning of your mono-amplifier 700. We recommend the use of a nonabrasive micro fibre towel. Please do not employ any solvents.

Security advice: Liquidity is not allowed to enter the mono-amplifier 700. The electronic may be damaged seriously.



8 Service

If your mono-amplifier 700 needs service please contact your soulution dealer. For further information see www.soulution-audio.com

9 Guarantee

All soulution products are guaranteed against defects in material and workmanship for five years from date of purchase.

The guarantee is void if the mono-amplifier 700 has been subject to misuse, or negligence or has been modified, repaired or opened by a non authorised person without written authorisation of Spemot AG.

For the return transport to our premises please use exclusively the original packaging. Transport damages are not subject to this guarantee, repairs will be charged. We recommend effecting a transport insurance.

If you do not possess the original packaging no more please contact your soulution dealer.

Basic repairs may be completed by your soulution dealer. Please clarify whether he is able to do the work before you send the mono-amplifier 700 back to us.



10 Specifications

Specification		Bi-Amping	Bridged
Model 230 V, 50-60Hz			
Nominal voltage	50-60Hz	230 V	230 V
Nominal rating		2'300 W	2'300 W
Audio power rating	@ 8Ω	2 x 100 W	400 W
	@ 4Ω	2 x 200 W	800 W
Model 220 V, 50-60Hz			
Nominal voltage	50-60Hz	220 V	220 V
Nominal rating		2'200 W	2'200 W
Audio power rating	@ 8Ω	2 x 90 W	350 W
	@ 4Ω	2 x 180 W	700 W
Model 120 V, 50-60Hz			
Nominal voltage	50-60Hz	120 V	120 V
Nominal rating		1'920 W	1'920 W
Audio power rating	@ 8Ω	2 x 90 W	350 W
	@ 4Ω	2 x 180 W	700 W
Model 100 V, 50-60Hz			
Nominal voltage	50-60Hz	100 V	100 V
Nominal rating		1'600 W	1'600 W
Audio power rating	@ 8Ω	2 x 90 W	350 W
	@ 4Ω	2 x 180 W	700 W
General data			
Standby / OFF		<0.5 W	<0.5 W
Idle "High Consumption"		ca. 250 W	ca. 250 W
Idle "Low Consumption"		ca. 150 W	ca. 150 W

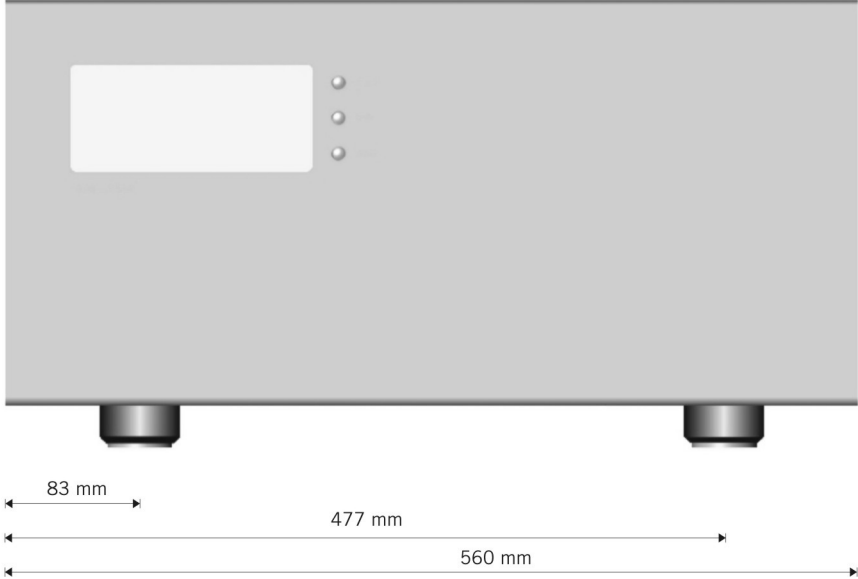
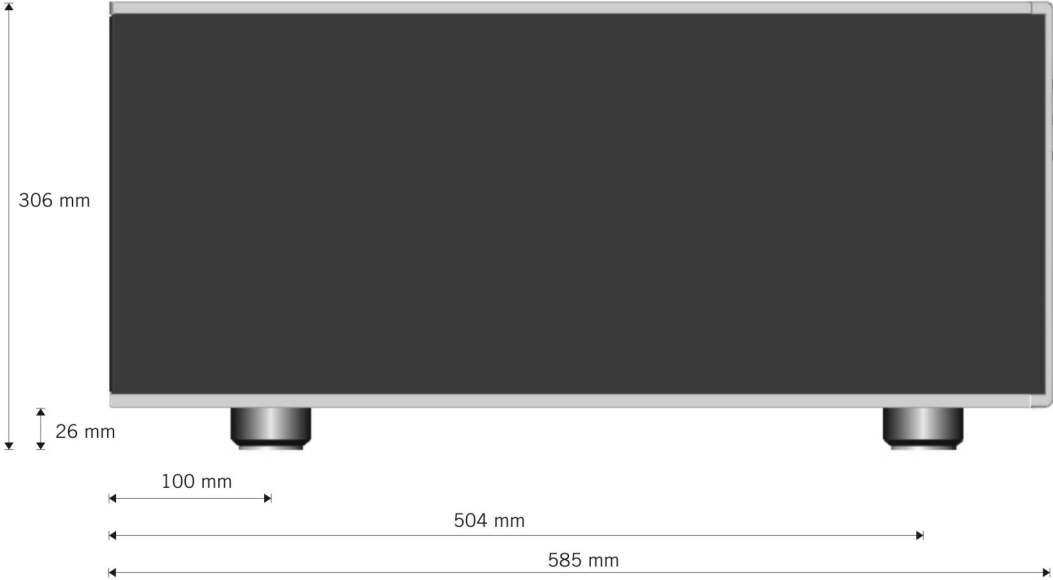


Specification		Bi-Amping	Bridged
Input			
Impedance	XLR	2.3 k Ω	2.3 k Ω
	cinch	4.0 k Ω	4.0 k Ω
Sensitivity		1.38 Vrms	1.38 Vrms
Output			
Impedance		0.001 Ω	0.002 Ω
Output voltage max.		28 Vrms	56 Vrms
Output current max.		60 A	60 A
Impulse rating		>2x3'000 W	> 6'000 W
Performance			
Voltage amplification		+26 dB	+32 dB
Frequency response		DC-1 MHz	DC-2 MHz
Slew rate		400 ns	200 ns
THD+N		<0.0007 %	<0.0007 %
Signal to noise ratio		107 dB	101 dB
Damping factor (100Hz)		> 10'000	> 5'000
Dimensions			
Dimensions		560x585x306 mm	
Weight		ca. 96 kg	

Technical specifications are subject to change without prior notification.



11 Dimensions






12 Definitions

Operating conditions

OFF	In operating condition OFF (stand-by) only the power supplies for the display and digital circuits are active. The power consumption accounts for <0.5Watts.
P ON (Protect ON)	After switch on (OFF -> ON) the mono-amplifier 700 gets first into operating condition P ON. The audio power supplies get started. As soon as constant conditions are reached and no errors are detected the mono-amplifier 700 changes into operating condition ON. If high-frequency or DC-offset is detected during operation the mono-amplifier 700 changes to P ON.
ON	In operation condition ON your mono-amplifier 700 is ready to reproduce music.
ERR1 (Error)	As soon as an error occurs the mono-amplifier is switched off immediately. ERR1 represents an error occurred in the power supply of the audio channels. (electronic fuse)
ERR2 (Error)	ERR2 presents an error occurred in the audio channels themselves (e.g. overtemperature, overcurrent, etc.)
ERR3 (Error)	ERR3 represents an error occurred in the protection circuits of the audio channels.
LINK	The control of the start-up sequence is delegated to the preamplifier 720/721.
NORM	The control of the start-up sequence remains with the mono-amplifier 700 despite an eventually existing LINK-connection.

Labelling

SYM	Abbreviation for symmetrical connection.
XLR female	 1. Ground, 2. + Phase, 3. - Phase
ASYM	Abbreviation for asymmetrical connection.

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