CONGRATULATIONS

You are about to install and use a device from the Stromtank range. You have chosen a high-tech device that will play a central role to hear the excellent quality of your audio components. Stromtank has been designed to separate your hi-fi system completely from the grid to supply clean, undisturbed grid power to achieve the next level of music quality with your hi-fi system.

Time to make the best of what you already own.
## PRECAUTIONS

Important safety instructions. Read carefully and keep for future reference!

When the Stromtank is running, it generates voltage that can be potentially lethal. Work on or close to the installation must only be carried out by thoroughly trained and qualified personnel. Do not attempt to carry out on-going maintenance of this product yourself. There are NO USER SERVICEABLE PARTS INSIDE the unit. Do not open the chassis or remove any of its screws. In case of any service needs contact your Stromtank dealer.

When working on the electrical installation, it is important to be certain that the source of DC voltage coming from the battery as well as the source of AC voltage coming from a generator or electric circuit have been disconnected from the electrical installation.

Even when the Stromtank has been disconnected from the supply sources (AC and DC), a dangerous voltage may remain at the outputs. To eliminate this risk you must switch the Stromtank OFF using the ON/OFF button. After 10 seconds the electronics are discharged and intervention may take place without any danger. All elements connected to the Stromtank must comply with the applicable laws and regulations.

The weight of the Stromtank can be up to 265 lbs /125 kg depending upon the model. Use an appropriate lifting method as well as help from a third party when installing the equipment.

Persons not holding written authorisation from manufacturer are not permitted to proceed with any change, modification or repairs that may be required. Only original parts may be used for authorised modifications or replacements.

The Stromtank is only designed for indoor use and must under no circumstances be subjected to rain, snow or other humid or dusty conditions. The maximum specifications of the device shown on the type plate must be adhered to.

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UNPACKING

ATTENTION: The weight of the Stromtank can be up to 265 lbs /125 kg depending upon the model. Use an appropriate lifting method as well as help from a third party when installing the equipment.

While the Stromtank is still in its case, please move it to a location near the place where it will be installed. Remove all jewelry including watches, rings and belts from your person to avoid damage to the exterior of the Stromtank during removal and installation.

At first remove the cardboard box. Then carefully unscrew the upper screws (Torx size T25) on the wooden case [Fig.1] and remove the top board [Fig.2].

When unpacking, check that the equipment has not been damaged during transportation and all items listed below are present. If anything is missing it has to be indicated immediately to your dealer. Check the packaging and the Stromtank carefully.

Package contents:
- 1 Stromtank unit
- 1 vacuum cup
- 1 locking key
- 1 pair non-slip gloves
- 1 AC power cord
- 1 warranty card
- 1 owner’s manual
- 1 microfibre cloth

After checking unscrew the screws (Torx size T25) on the front board to open it [Fig.3].

ATTENTION: Do not hold the Stromtank unit on its front and do not lift it!

Push the unit from the rear side out of the case [Fig 4].

The finish of the Stromtank is extremely delicate. We suggest wearing the supplied gloves when handling the Stromtank to avoid abrasion or fingerprints caused by oils from the skin, etc.

Place the Stromtank on a level surface with an adequate ventilation. Make sure the surface that will support this component can safely hold its weight up to 265 lbs. There should be at least 3 inches of clearance space on each side and 3 inches of clearance at the top as well as above the unit.

Remove the cloth that covers the Stromtank to protect its finish. Save the cloth in the box to use it again if you ever need to ship the Stromtank.
FRONT VIEW

1. display
2. ampere meter
3. front button

REAR VIEW

1. brightness switch
2. connecting plate
3. lock
Before you start with the installation take care that no audio parts are connected with the Stromtank and the unit is not connected with the electric circuit.

To install the Stromtank and connect it with your audio equipment please follow the steps in order.

1. Make sure that the position of the main switch at the rear is in “off” position and the push button at the front is released.

2. Connect the AC input with a power cord to the next available grid outlet (115 Vac* outlet). **ATTENTION:** Never connect the Stromtank’s AC input with its AC outlets. This will cause damage to the unit!

3. Insert the supplied key into the key switch, turn it into a vertical position and remove the key from the switch.

4. Push the main switch at the rear in “on” position. Now the ampere meter at the front is illuminated by a blue light (front button below the instrument must be in “off” position – button should not be pressed).

5. Plug your audio AC cords into the AC outlets. It is important to make certain that all audio units are in “off” position.

6. Switch on both fuse switches above the AC outlets.**

7. Turn on your connected audio equipment. **ATTENTION:** One after the other!

8. To select pure power off-grid mode and enjoy distortion free music push the front button and the blue light will change to a green illumination. Or go to grid mode (front button released, blue light) for charging and on-grid music listening.

**ATTENTION:** Version for Japan and Taiwan: 100 V. European version: 230 V.

** European version: one fuse switch only.

Turn on your audio system. To hear the best quality of your audio components it is recommended to start with off-grid mode. This allows the Stromtank to warm-up and shakedown the system.
DISPLAY OPERATION

The illuminated display at the top of the Stromtank indicates the state of charging in 10 steps from 10% up to 100%. When all 10 indicators are illuminated the unit is fully charged (100%). If only one indicator is shown the unit is nearly empty (state of charging: 10%).

If the Stromtank is in off-grid mode (front button pushed) and reaches a rest capacity of 10% it automatically switches back to electric circuit for emergency charging (the light at the ampere meter changes to blue illumination). As soon as the battery capacity reaches 20% the Stromtank returns to off-grid mode (the light at the ampere meter changes to green.)

This security function ensures that the battery cannot totally be discharged, e.g. if you forget to switch the unit to on-grid mode (charging) after a music session.

ATTENTION: Do not forget to switch back to on-grid mode for charging the batteries.

If the display shows a red lighting LED check that the AC-in power cord of the Stromtank is connected properly to the electric circuit. The red LED also indicates that the AC-in fuse is blown.

ADVANCED FEATURES

STROMTANK - INVERTER

The Stromtank is equipped with a high-performance inverter, which supplies a perfect and very precise sine wave. Any unit designed for the 230V-50 Hz / 115V-60Hz electric circuit can be connected to it without any problem, up to the rated power out of the Stromtank. The Stromtank is protected against overloads and short-circuits.

Thanks to the largely over-dimensioned performance level, loads up to three times higher than the Stromtank’s rated power can be faultlessly supplied for short periods (3 sec) of use, thus allowing the load to be started up without any problem.

AUTOMATIC LOAD DETECTION (load search)

In order to save battery energy, the Stromtank stops and automatically goes into load search mode when the detected load is lower than the sensitivity (2.5W). It automatically goes back into operation when a power consumer greater than this value demands it.

In load search mode (standby), the system will thus consume minimal power from the battery.

AC-IN CURRENT ACTIVE FILTERING

In this mode the current taken on AC-input is a sinusoid in phase with voltage. That means only active power is taken from the generator. The Stromtank compensates harmonics and reactive current from the source.

This function also avoids fast speed change on the generator due to loads jump.
MAINTENANCE

The Stromtank requires no user maintenance other than to keep it clean. Like a piece of furniture the Stromtank has a fine, highly polished finish that can be easily damaged. Do not rub or polish the finish and do not allow objects to come in contact with it.

To clean the Stromtank first unplug the unit from the electric circuit. To wipe off fingerprints and other grease spots spray a small amount of mild detergent dissolved in water onto the supplied microfiber cloth and gently wipe the surface with the close.

**Caution!** The cloth must never be dripping wet! If water or other fluids enter the cabinet, you risk damaging the unit. Do not spray any liquid directly onto the Stromtank.

Never use scouring pads, steel wool, scouring powders or harsh chemical agents, alcohol, thinners, benzine, insecticide or other volatile substances, as these can permanently scratch and destroy the surface.

If you need to transport or ship the Stromtank, make sure to use the original packing material. Allow the unit to cool down for at least one hour before you wrap or package it.

STORAGE

The equipment must be stored in a dry environment at an ambient temperature of between 10 °C (50 °F) and 45 °C (113 °F).
### SPECIFICATIONS

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<td>Input voltage range</td>
<td>150 to 265 Vac / 50 to 140 Vac</td>
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<tr>
<td>Input frequency</td>
<td>45 to 65 Hz (auto sensing)</td>
</tr>
<tr>
<td>Input current max.</td>
<td>16 Aac (transfer relay)</td>
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<table>
<thead>
<tr>
<th>Output AC parameter off grid</th>
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<tr>
<td>Output voltage</td>
<td>230 Vac / 120 Vac* (pure sine wave +/- 2%)</td>
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<tr>
<td>Output frequency</td>
<td>50 Hz/ 60 Hz +/- 0.05% (crystal controlled)</td>
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<td>Harmonic distortion</td>
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<td>Continues power @ 25°C</td>
<td>900 VA</td>
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<td>Power 30min. @ 25°C</td>
<td>1,400 VA</td>
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<tr>
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<td>2,800 VA</td>
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<td>LFP - Lithium Iron Phosphate (LiFePO4)</td>
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<td>48 / 50 Vdc</td>
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<td>2x Hubbell duplex, Hospital spec. grade</td>
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<td>AC output fuse</td>
<td>2x thermal – magnetic circuit breaker</td>
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<tr>
<td>AC input connection</td>
<td>ICE 320 - C14 (fuse 10AT)</td>
</tr>
<tr>
<td>Interface</td>
<td>CAN (RJ45-8 type “Com bus”)<strong>, USB</strong></td>
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Design and specifications are subject to change without notice.
QUALITY AND WARRANTY

During the production and assembly of the Stromtank, each unit undergoes several professional checks and tests. These are carried out with strict adherence to the established procedures. Each Stromtank owns a serial number allowing complete follow-up on the checks, according to the particular data for each device. For this reason it is very important never to remove the type plate which shows the serial number. The manufacture, assembly and tests for each Stromtank are carried out in their entirety by its factory in Germany. The warranty for this equipment depends upon the strict application of the instructions appearing in this manual.

Exclusion of warranty

No warranty claims will be accepted for damage resulting from handling, usage or processing that does not explicitly appear in this manual. Cases of damage arising from the following causes are notably excluded from the warranty:

- Surge voltage on the battery input
- Incorrect polarity of the battery
- The accidental ingress of liquids into the device or oxidation resulting from condensation
- Damage resulting from physical or mechanical shocks
- Modifications carried out without the explicit authorisation of manufacturer
- Nuts or screws that have not been tightened sufficiently during the installation or maintenance
- Damage due to atmospheric surge voltage (lightning)
- Damage due to inappropriate transportation or packaging
- Disappearance of original marking elements

Exclusion of liability

The placement, commissioning, use, maintenance and servicing of the Stromtank cannot be the subject of monitoring by manufacturer. Therefore, we assume no responsibility and liability for damage, costs or losses resulting from an installation that does not conform to the instructions, defective functioning or deficient maintenance. The use of a Stromtank is the responsibility of the customer in all cases.

Manufacturer shall in no event be liable for consequential, incidental, contingent or special damages, even if having been advised of the probability of such damages. This equipment is neither designed nor guaranteed to supply installations used for vital medical care nor any other critical installation carrying significant potential damage risks to people or the environment.

Manufacturer assumes no responsibility for the infringement of patent rights or other rights of third parties that result from using the Stromtank.

Manufacturer reserves the right to make any modifications to the product without prior notification.