



Smart Li-ion Power

User Guide

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Before you start

This device is intended to charge our specific hearing instruments with built-in power cells (lithium-ion rechargeable batteries). Your Hearing Care Professional will advise you on the compatible models.

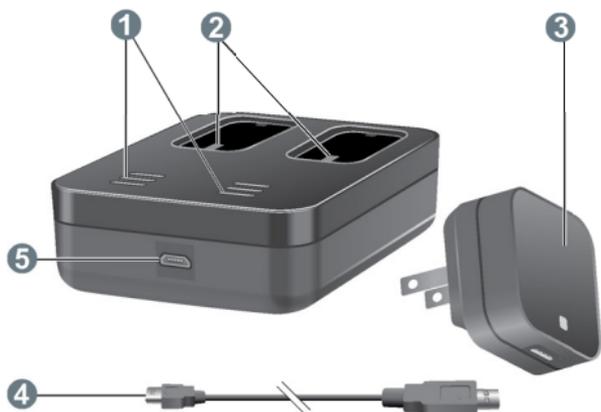
The charger is only intended for indoor use. Observe and follow the operating conditions in section "Operating, transport, and storage conditions".



CAUTION

Read this user guide thoroughly and completely and follow the safety information in this document to avoid damage or injury.

Components



-
- | | |
|------------------|-----------------------------|
| ① Status LEDs | ④ USB power cable |
| ② Charging slots | ⑤ USB port for power supply |
| ③ Power plug | |
-

Preparing the charger



NOTICE

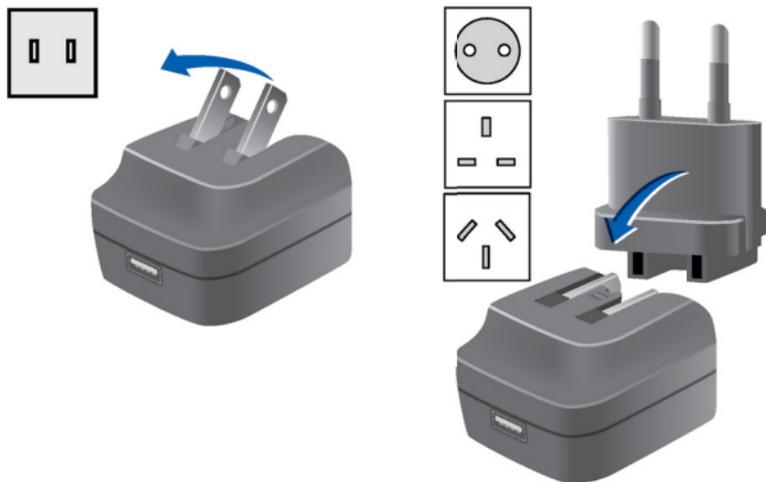
Use of incompatible parts poses a risk of malfunction.

- ▶ Use only the power supply and country specific adapter that is provided with the charger.

Assembling the power plug

The power plug comes with several country-specific adapters. Depending on your country you have to assemble the power plug with an adapter:

- ▶ For US sockets, no adapter is required. Fold out the plugs (left picture).
- ▶ For all other sockets, an adapter is required (right picture): Fold the plugs in and slide the adapter onto the folded plugs. The adapter clicks noticeably in place.



You can now connect the cable with the power plug.

Connecting the USB power cable

- ▶ Connect the micro-USB side of the USB power cable to the charger **1**.
- ▶ Connect the other side of the USB power cable to the power plug **2**.



Charging



NOTICE

Please make sure that the power plug is easily accessible to remove it from power supply if necessary.

- ▶ Connect the charger to the power supply.
One green LED for each charging slot indicates the charger has power and is ready for use.



- ▶ Put the hearing instruments in the charging slots as shown in the picture. You can charge both hearing instruments at the same time.



- ▶ The hearing instruments are automatically turned off and start charging. The charging status is indicated, see table "Charging status" on the next pages.
- ▶ When you want to use your hearing instruments, take them out of the charger. They will automatically turn on.
- ▶ You can leave the charger plugged in or remove it from the power supply.

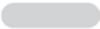
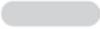
Correct position of the hearing instruments

- The left and right hearing instruments can be inserted into either charging slot. The slots are not side specific.
- The hearing instruments lie loosely in the charging slots.
- The ear pieces of the hearing instruments should always point towards the status LEDs.
- Make sure the bottom part of the hearing instruments are placed well into the charging slots.



Charging status

LED	Status description
	No LED:
	Charger is not connected to power supply.
	Single green LED:
	Charger is connected to a power supply and ready to charge. No hearing instrument is inserted in the respective charging slot or the hearing instrument is not inserted correctly.

LED	Status description
	Flashing green LED:
	Charging status of the hearing instrument is read
	out before charging starts.
	Single orange LED:
	Charging status 0 - 33 %
	
	Two orange LEDs:
	Charging status 34 % - 66 %
	
	Three orange LEDs:
	Charging status 67 % - 99 %
	
	Three green LEDs:
	Hearing instrument is fully charged.
	
	Three flashing orange LEDs: Cooling phase
	Charging is resumed after 30 minutes.
	
	Flashing/Steady red LEDs: Error
	Read more in section "Troubleshooting".
	

Charging tips

You may have some questions on how to best charge your hearing instruments. Read the questions and answers below. If you have more questions, your Hearing Care Professional will help you.

How often do I need to charge the hearing instruments?

We recommend charging the hearing instruments daily, even if the power cell is not empty. Charge them overnight so you can be sure to start your day with fully-charged hearing instruments.

How long does charging take?

A full charging cycle takes approximately 4 hours.

After 30 minutes, it is possible to use your hearing instruments for up to 7 hours.

Charging times may vary due to the use of the hearing instruments and the age of the power cell.

Can I leave the hearing instruments in the charger?

Even when fully charged, you can leave the hearing instruments in the charger. They automatically stop charging when they are fully charged.



What happens if I forgot to charge?

Your hearing instruments will automatically switch-off when the power cell is empty. Charge the hearing instruments as soon as possible.

Hearing instruments which have not been charged for over 6 months may be damaged due to an unrecoverable deep-discharge of the power cell. Deep-discharged power cells cannot be charged anymore and have to be replaced.



What if I intend not to use the hearing instruments for several days or longer?

- Short-term storage (up to several days): Turn off your hearing instruments via the push button or place them in the powered charger.

The charger must be connected to the power supply. If the charger is not connected to power supply and you place your hearing instruments in the charger, the hearing instruments are **not** turned off.

Note that when you turn off the hearing instruments via a remote control or smartphone app, the hearing instruments are **not** turned off completely. They are in standby-mode and still draw some power.

Your charger dries the hearing instruments while charging. You can also use conventional products to dry your instruments.

- Long-term storage (weeks, months, ...): First, fully charge your hearing instruments. Turn them off via the push button before storing them. We recommend to use drying products while storing the hearing instruments.

At 6 month intervals you will have to charge the hearing instruments to avoid an unrecoverable deep-discharge of the power cell. Deep-discharged power cells cannot be charged anymore and they have to be replaced. We recommend recharging more frequently than 6 months intervals.

Observe the storage conditions in hearing instruments' user guide.

Ask your Hearing Care Professional for recommended drying products.

 **When should I ask my Hearing Care Professional to replace the power cell?**

If the fully charged hearing instrument does not last for a full day of use (16 hours) then we recommend having the power cell replaced by your Hearing Care Professional.

 **What should I pay attention to when charging?**

The hearing instruments and charger must be clean and dry. Observe the operation conditions in section "Operating, transport, and storage conditions". Avoid charging at high ambient temperatures, as this can shorten the life span and capacity of the power cell.

If you use the charger in a very warm environment, note that it will stop charging if the charger's temperature exceeds 42 °C in order to cool down. The LEDs will flash orange during the cooling phase. Charging resumes automatically after 30 minutes. Do not touch the hearing instruments while the LEDs are flashing orange, the hearing instruments may be hot.



What should I pay attention to when using a power strip with energy-saving features?

- Turn on the power strip **before** you insert the hearing instruments in the charger. Otherwise, the hearing instruments may not be detected by the charger.
- Do not turn off the power strip **while** the hearing instruments are in charger. Otherwise the hearing instruments will automatically turn on and discharge in the charger.

Before you turn off the power strip, remove the hearing instruments from the charger and turn them off via the push button.

Further information

Maintenance and care



NOTICE

Risk of injuries caused by electric shock!

- ▶ If cleaning is required, disconnect the charger from the power supply.
- ▶ Clean the charger with a soft, dry tissue.
- ▶ Never use running water or immerse the charger in water.
- ▶ Do not sterilize or disinfect the charger.

Troubleshooting

Problem and possible solutions

No LED lights are on.

- Check if the power supply is connected correctly.
-

LEDs are flashing orange.

Charger has reached the temperature limit and is now in a cooling phase. Charging is resumed after 30 minutes.

- Do not touch the hearing instruments while the LEDs are flashing orange. The hearing instruments may be hot.
-

Problem and possible solutions

LEDs are flashing red.

An error in the charger has occurred.

- Take the hearing instruments out of the charger and disconnect the charger from the power supply.
- Reconnect the charger to the power supply and re-insert the hearing instruments in the charging slots.

If the LEDs are still flashing red:

- Take the hearing instruments out of the charger and disconnect the charger from the power supply.
 - Contact your Hearing Care Professional for support.
-

Steady red LEDs.

An error in the hearing instruments has occurred.

- Take the hearing instruments out of the charger and disconnect the charger from the power supply.
 - Contact your Hearing Care Professional for support.
-

Consult your Hearing Care Professional if you encounter further problems.

Important safety information

Personal safety



WARNING

Risk of burns!

- ▶ Do not place anything other than your hearing instruments in the charger.



WARNING

Risk of electrical shock!

- ▶ Do not use obviously damaged devices and return them to point of sale.



WARNING

Choking hazard!

Your device contains small parts which can be swallowed.

- ▶ Keep hearing instruments, batteries and accessories out of reach of children and mentally disabled persons.
- ▶ If parts have been swallowed consult a physician or hospital immediately.



WARNING

Note that any unauthorized changes to the product may cause damage to the product or cause injury.

- ▶ Use only approved parts and accessories. Ask your Hearing Care Professional for support.



WARNING

Risk of explosion!

- ▶ Do not use your device in explosive atmospheres (e. g. in mining areas).



WARNING

Charging systems may interfere with measuring devices and electronic equipment.

- ▶ On airplanes: The charger complies with RTCA/DO-160G, Section 21, Category H. Therefore use of the charger on airplanes during the flight should be permissible.

Nevertheless the aircraft crew may ask you to not charge the hearing instruments during the flight.

- ▶ In hospitals: The charger complies with CISPR 22 and CISPR 32. Therefore use of the charger in hospitals should be permissible.

Nevertheless the charger may interfere with highly sensitive devices. In those cases appropriate steps shall be taken (increase distance from sensitive devices or disconnect the charger from power supply).



WARNING

Interference with implantable devices

- ▶ The device can be used with all electronic implants that comply with the ANSI/AAMI/ISO 14117:2012 Electromagnetic compatibility standard for human implants.
- ▶ In case your implant does not comply with the ANSI/AAMI/ISO 14117:2012 standard, consult the manufacturer of your implantable device for information about the risk of disturbance.

Product safety



NOTICE

- ▶ Protect your devices from extreme heat. Do not expose them to direct sunlight.



NOTICE

- ▶ Protect your devices from high humidity.



NOTICE

- ▶ Do not dry your devices in the microwave oven.

**NOTICE**

While connected to power, the charger's magnetic field may cause interference to electrical devices and may delete stored data.

- ▶ While connected to power, keep the charger away from credit cards, computers, monitors, television sets, storage media and other electronic equipment.

**NOTICE**

- ▶ Do not drop. Internal components may get damaged.

**NOTICE**

- ▶ Do not disassemble the device.

**NOTICE**

- ▶ Do not use when the status indicators are red.

Important information

Explanation of symbols

Symbols used in this document



Points out a situation that could lead to serious, moderate, or minor injuries.



Indicates possible property damage.



Advice and tips on how to handle your device better.

Symbols on the device or packaging



CE compliance label, confirms compliance with certain European Directives, refer to section "Conformance information".



Indicates the legal manufacturer of the device.



Do not dispose of the device with general domestic waste. Read more in section "Disposal information".



Read and follow the instructions in the user guide.

Operating, transport, and storage conditions

Operating conditions	
Temperature	10 to 35 °C
Relative humidity	20 to 75 %

During extended periods of transport and storage, please observe the following conditions:

	Storage	Transport
Temperature	10 to 40 °C	-20 to 60 °C
Relative humidity	10 to 80 %	5 to 90 %

For other parts, such as hearing instruments, other conditions may apply.

Technical data of the power supply

Golden Profit GPE006H-050100-Z	
Input voltage:	100-240 V AC
Input current:	0.5 A
Input frequency:	50-60 Hz
Output voltage:	5 V DC
Output current:	1 A

Disposal information

Recycle devices, accessories and packaging according to local regulations.

Conformance information

The CE mark indicates conformity with the following European directives:



- 2014/30/EU concerning electromagnetic compatibility
- 2014/35/EU concerning electrical equipment designed for use within certain voltage limits
- 2011/65/EU RoHS concerning the restriction of hazardous substances

This device complies with Part 15 of the FCC Rules and with Canadian license-exempt RSS standard(s).

Operation is subject to the following two conditions:

- This device may not cause harmful interference, and
- this device must accept any interference received, including interference that may cause undesired operation.

Country-specific information

 **Legal Manufacturer**
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