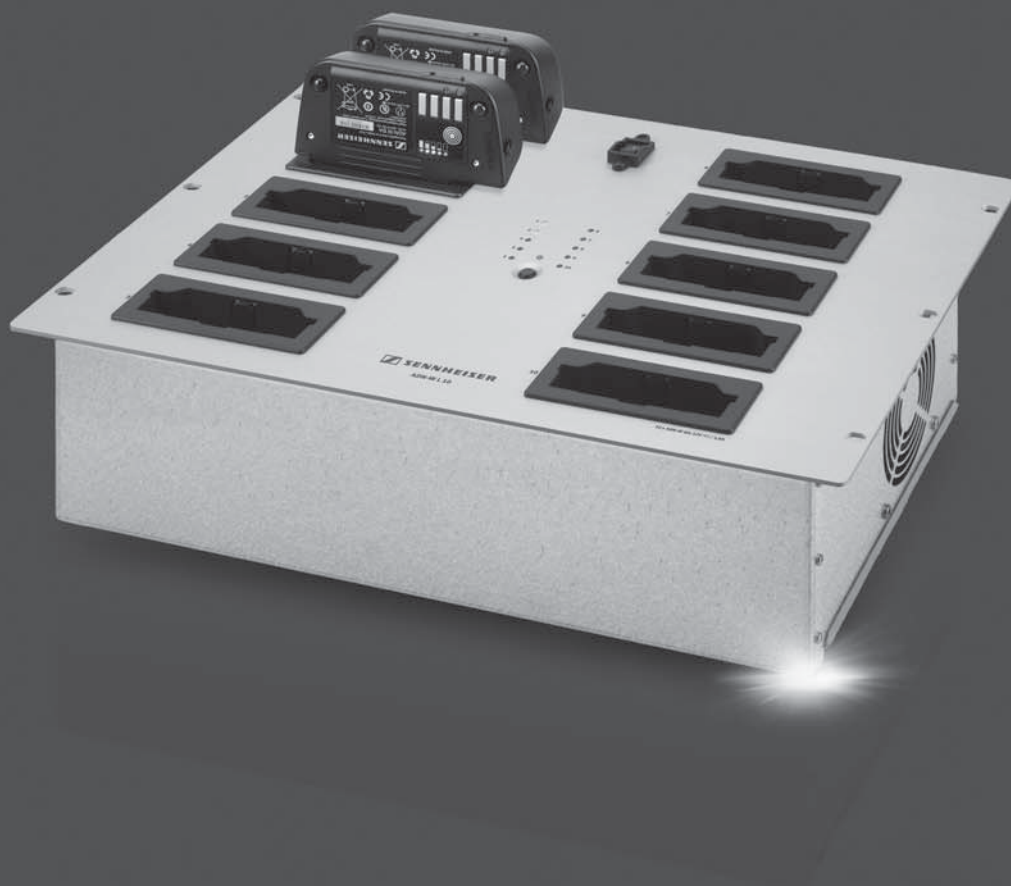


ADN-W L 10

Battery Charger



Instruction manual

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For your safety



Please make sure to read the “Safety information” supplement included separately with the product. This supplement contains important information on the safe operation of the product as well as the manufacturer’s declaration and warranty notes.



A detailed instruction manual for the overall ADN conference system can be found

- on the Internet at www.sennheiser.com or
- on the DVD-ROM supplied with the ADN CU1 central unit.

The ADN-W L 10 charger

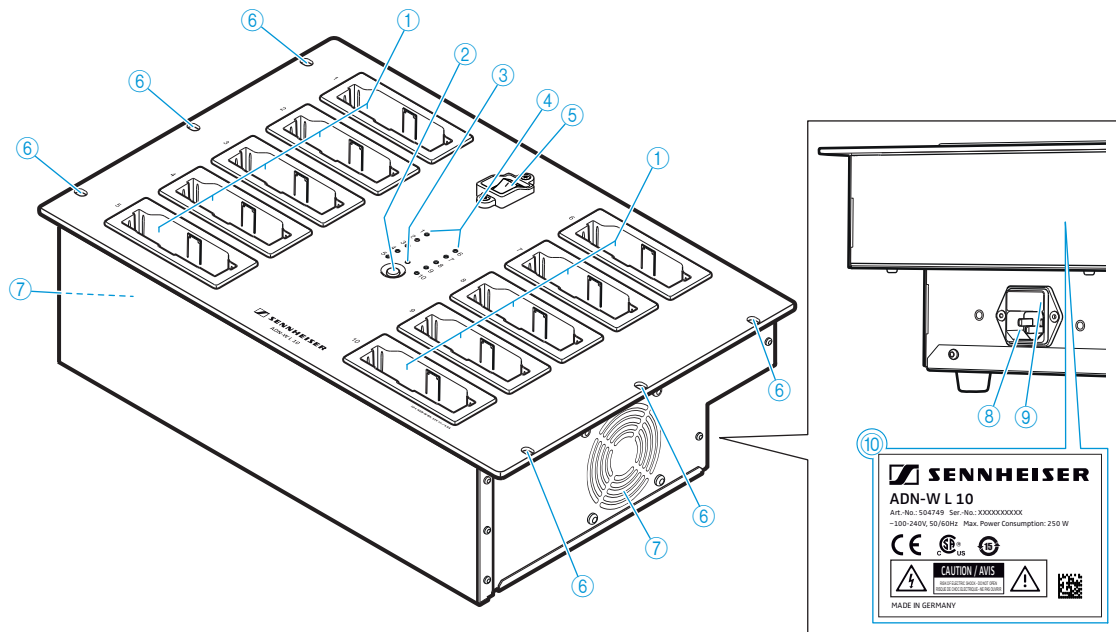
The ADN-W L 10 charger is part of the Sennheiser ADN conference system.

The ADN-W L 10 charger allows you to recharge up to 10 ADN-W BA Lithium-Ion battery packs required for the ADN-W D1 or ADN-W C1 wireless conference units.

Package contents

- 1 ADN-W L 10 charger
- 1 mains cable (with EU, UK or US mains plug, depending on version), length 1.8 m
- 1 instruction manual
- 1 “Safety information” supplement

Product overview ADN-W L 10



- | | |
|---|---|
| ① Charging compartments for 10 ADN-W BA battery packs | ⑥ Mounting holes for mounting the charger into a 19" rack |
| ② Button for charge status indication | ⑦ Fans |
| ③ Operation indicator, green | ⑧ Mains socket |
| ④ Status display for charging process | ⑨ Mains fuse |
| ⑤ On/off switch | ⑩ Type plate and hazard warnings |

Overview of the status display

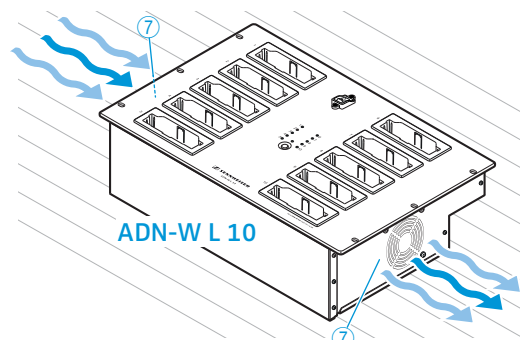
The status display for charging process ④ consists of 10 LEDs. The button ② allows you to switch between two charge status indications (**overall monitoring** and **individual compartment monitoring**) showing the obtained capacity (see page 4).

Preparing the ADN-W L 10 for operation

You can set up the charger on a flat surface or mount it into a 19" rack (7 U; approx. 310 mm).

Setting up the charger or mounting it into a rack

- ▶ Only operate the charger within the specified operating temperature range and air humidity range (see page 7) and make sure that no air vents ⑦ are blocked.
- ▶ Place the charger on a flat, horizontal surface as shown.



If you want to mount the ADN-W L 10 charger into a 19" rack:



CAUTION

Danger of material damage and personal injury when rack mounting the charger!

When installing the product in a closed or multi-rack assembly, please consider that, during operation,

- the ambient temperature within the rack may drastically increase,
- high mechanical loading may be exerted on e.g. the housings or cables,
- intrinsically harmless leakage currents of the individual mains units may accumulate, thereby exceeding the allowable limit value.

This can cause material damage and electric shocks.

- ▶ Make sure that the mechanical loading of the rack is even.
- ▶ Make sure that the ambient temperature within the rack does not exceed the permissible temperature limit specified in the specifications (see page 7). Ensure sufficient ventilation; if necessary, provide additional ventilation.
- ▶ When connecting to the mains power supply, observe the information indicated on the type plate. Avoid circuit overloading. If necessary, provide overcurrent protection.
- ▶ Ground the rack via an additional ground connection.

- ▶ Slide the ADN-W L 10 charger into a 19" rack.
- ▶ Fasten the charger to the rack by screwing 6 screws (cross recessed head screws M6x12, to be ordered separately) through the 6 mounting holes ⑥.



An engineering drawing detailing the dimensions of the ADN-W L 10 charger can be found in the ADN system manual.

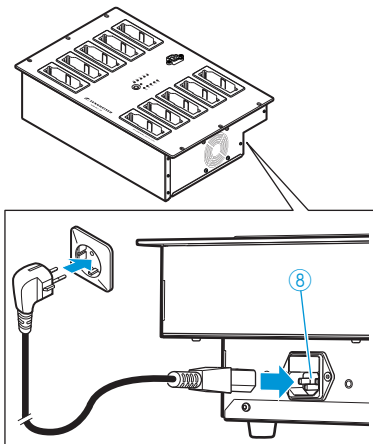
Connecting the charger to and disconnecting it from the mains power supply

CAUTION

Product damage due to an unsuitable power supply!

If you connect the charger to an unsuitable power supply, this can cause damage to the device.

- ▶ Use a mains cable with a 3-pin IEC mains connector to ensure a reliable mains ground connection of the charger – especially when you are using an extension cable or a multi-outlet power strip.
- ▶ Avoid circuit overloading. If necessary, provide overcurrent protection.



To connect the charger to the mains power supply:

- ▶ Connect the connector of the mains cable to the mains socket ⑧.
- ▶ Connect the mains plug (EU, UK or US plug) of the mains cable to the wall socket. Ensure a secure fit of the mains plug in the wall socket. The charger is now ready for operation.

To disconnect the charger from the mains power supply:

- ▶ Pull out the mains plug from the wall socket.

Switching the ADN-W L 10 on/off

To **switch** the ADN-W L 10 charger **on**:

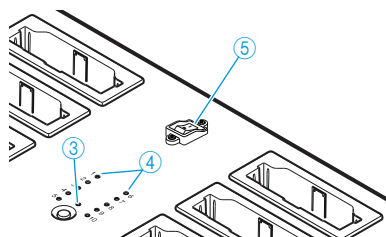
- ▶ Set the on/off switch ⑤ of the charger to position "I".
The charger switches on. The operation indicator ③ lights up green.

To **switch** the ADN-W L 10 charger **off** after use:

- ▶ Set the on/off switch ⑤ of the charger to position "0".
The charger switches off. The operation indicator ③ goes off.

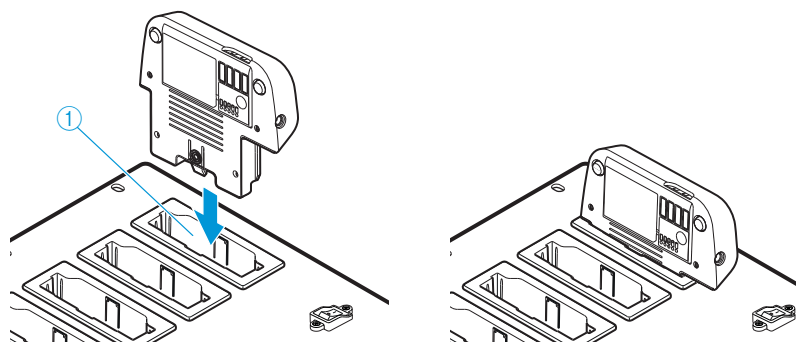
To **completely switch** the ADN-W L 10 charger **off**:

- ▶ Pull out the mains plug from the wall socket.



Charging the ADN-W BA battery packs

- ▶ Insert the ADN-W BA battery pack into any charging compartment ① until it locks into place.

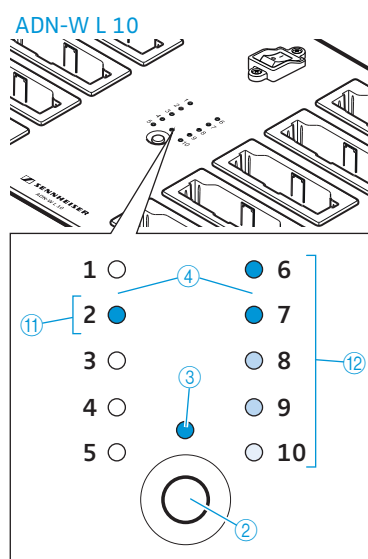


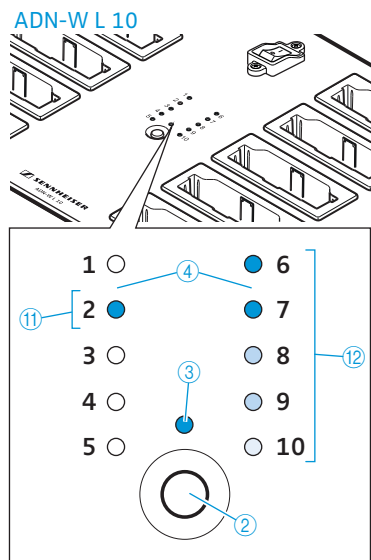
The charging process starts automatically (see "Behavior of the ADN-W BA battery pack during charging" on page 5). The status display ④ indicates the charging process (see "The status display of the ADN-W L 10 charger during charging" on page 4).

The status display of the ADN-W L 10 charger during charging

The status display ④ on the charger shows the **overall monitoring** of all charging compartments (each LED is assigned to a charging compartment):

LED ④	Color	Capacity obtained
1-10	–	Standby operation; no battery pack inserted or no connection to the mains power supply
	red	approx. 0-19%
	orange	approx. 20-94%
	green	approx. 95-100% Typical charging time is 4 hours with subsequent continuous capacity monitoring
	red, flashing rapidly	Battery pack's temperature is too high
	red, flashing slowly	Battery pack is defective





To call up the **individual compartment monitoring**:

- ▶ Press the button for charge status indication ②. The status display switches from overall monitoring to individual compartment monitoring. The LED (1-10) of the selected charging compartment (1-10) lights up green (see diagram as an example for charging compartment 2 ⑪). The adjacent LED strip comprising 5 LEDs displays the charge status in detail (see diagram as an example for a fully charged battery pack ⑫).

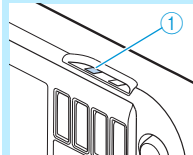
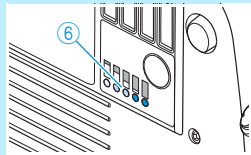
LED ④	Color	Capacity obtained
1 or 6	green	approx. 80-100% Typical charging time is 4 hours with subsequent continuous capacity monitoring
2 or 7	green	approx. 60-79%
3 or 8	orange	approx. 40-59%
4 or 9	orange	approx. 20-39%
5 or 10	red	approx. 0-19%
5 or 10	red, flashing rapidly	Battery pack's temperature is too high
5 or 10	red, flashing slowly	Battery pack is defective

To select the charging compartments 1 to 10 one after the other:

- ▶ Press the button ②. 5 seconds after the last button press, the status display switches back from individual compartment monitoring to overall monitoring.

Behavior of the ADN-W BA battery pack during charging

During charging, the battery pack and the charger will get warm. The battery status indicator ① and the charge status display ⑥ indicate the charging process:

Battery status indicator ①	Charge status display ⑥	Meaning
lights up orange	lights up (the current charge status flashes)	Battery pack is being charged, a complete charging process takes approx. 4 hours
off	off	Battery pack is fully charged, continuous capacity monitoring
orange, flashing rapidly	–	Battery pack is defective
		

Charging may take longer if the temperature of the battery pack is below 5°C or over 45°C. In this case, in order to protect the battery pack, the charging process is interrupted until the temperature is again within the admissible range and the battery status indicator ① lights up orange. The charging process starts automatically.

Cleaning and maintaining the ADN-W L 10 charger

CAUTION

Liquids can damage the product!

Liquids entering the product can cause a short-circuit in the electronics or damage the mechanics.

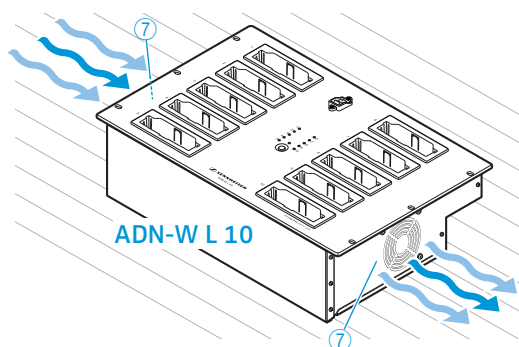
Solvents or cleansing agents can damage the surfaces of the product.

- ▶ Keep all liquids away from the product.
- ▶ Do not use any solvents or cleansing agents.

- ▶ Before cleaning, switch the charger off and disconnect it from the mains power supply (see page 3).
- ▶ Only use a dry and soft cloth to clean the product.
- ▶ Use for example a paintbrush to remove dust from the charging compartments.

To ensure optimum cooling of the charger:

- ▶ Clean the air vents on the charger's sides from time to time with a soft brush or paintbrush in order to avoid dust deposits.





If a problem occurs ...

Problem	Possible cause	Possible solution
Battery pack does not charge	Battery pack is overheated	Let the battery pack cool down and ensure sufficient ventilation during charging (ambient temperature of 5°C to 45°C).
	Battery pack is inserted into the charger and the NT 12-50C power supply is additionally connected to the battery pack	Charge the battery pack either via the NT 12-50C power supply or the ADN-W L 10 charger.
	Charger's fuse has tripped	Contact your Sennheiser partner to find the cause of the problem and to have the fuse replaced.
	Battery pack is defective	Replace the defective battery pack with a new one.
Battery charge is quickly used up	Battery pack is overaged	Replace the overaged battery pack with a new one.


Specifications ADN-W L 10

Nominal input voltage	100 to 240 V~
Mains frequency	50 to 60 Hz
Power consumption	max. 250 W
Charging voltage	12 V ===
Charging current	max. 10 x 1.6 A
Compatible battery packs	Sennheiser ADN-W BA
Charging time	with a completely discharged battery pack and at room temperature: approx. 100% = typ. 4 hours
Temperature range	operation: +5°C to +45°C storage: -20°C to +70°C
Relative humidity, non-condensing	operation: 20 to 95% storage: 10 to 90%
Dimensions (W x H x D)	approx. 483 x 138 x 310 mm, can be mounted into a 19" rack (7 U)
Weight w/o battery packs	approx. 6.8 kg

In compliance with

Europe	EMC	EN 301489-1/-17
	Safety	EN 60065
USA	EMC	 47 CFR Part 15 B
	Safety	UL 60065
Canada	EMC	CAN ICES-3(B)/NMB-3(B)
	Safety	CAN/CSA-C22.2 No. 60065

Certified by

USA/Canada	Audio, Video and Similar Electronic Apparatus – Safety Requirements CAN/CSA-C22.2 No. 60065 and UL 60065
	



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