Robert Bosch Power Tools GmbH
70538 Stuttgart • GERMANY

www.bosch-professional.com

EXPERT

EXAL18V2-320

AMPShare

Powered by BOSCH

Safety instructions

Read all the safety and general instructions. Failure to observe the safety and general instructions may result in electric shock, fire and/or serious injury.

Store these instructions in a safe place.

Only use the charger if you can fully evaluate all functions and carry them out without restrictions, or if you have received corresponding instructions.

- **This charger is not intended for use by children or persons with physical, sensory or mental limitations or a lack of experience or knowledge. This charger can be used by children aged 8 or older and by persons who have physical, sensory or mental limitations or a lack of experience or knowledge if a person responsible for their safety supervises them or has instructed them in the safe operation of the charger and they understand the associated dangers.** Otherwise, there is a risk of operating errors and injuries.
- **Supervise children during use, cleaning and maintenance.** This will ensure that children do not play with the charger.
- **Only charge Bosch Li-ion batteries or batteries of AMPShare partners with a capacity of 1.3 Ah or more. The battery voltage must match the battery charging voltage of the charger. Do not charge any non-rechargeable batteries.** Otherwise there is a risk of fire and explosion.

Only use the charger in enclosed spaces and do not expose it to wet conditions. Water entering a charger increases the risk of electric shock.

- **Keep the charger clean.** Dirt poses a risk of electric shock.
- **Always check the charger, including the cable and plug, before use. Stop using the charger if you discover any damage. Do not open the charger yourself, and have it repaired only by Bosch or by an authorised after-sales service centre using only original replacement parts.** Damaged chargers, cables and plugs increase the risk of electric shock.
- **Do not operate the charger on an easily ignited surface (e.g. paper, textiles, etc.) or in a flammable environment.** There is a risk of fire due to the charger heating up during operation.
- **Do not cover the ventilation slots of the charger.** Otherwise, the charger may overheat and no longer function properly.
- **Recharge only with the charger specified by the manufacturer.** A charger that is suitable for one type of battery pack may create a risk of fire when used with another battery pack.
- **In case of damage and improper use of the battery, vapours may also be emitted.** Ensure the area is well-ventilated and seek medical attention should you experience any adverse effects. The vapours may irritate the respiratory system.
- **Under abusive conditions, liquid may be ejected from the battery; avoid contact. If contact accidentally occurs, flush with water. If liquid contacts eyes, additionally seek medical help.** Liquid ejected from the battery may cause irritation or burns.
- **Products sold in GB only:**
  Your product is fitted with an BS 1363/A approved electric plug with internal fuse (ASTA approved to BS 1362).
  If the plug is not suitable for your socket outlets, it should be cut off and an appropriate plug fitted in its place by an authorised customer service agent. The replacement plug should have the same fuse rating as the original plug.
  The severed plug must be disposed of to avoid a possible shock hazard and should never be inserted into a mains socket elsewhere.

This charger incorporates an earth connection for functional purposes.

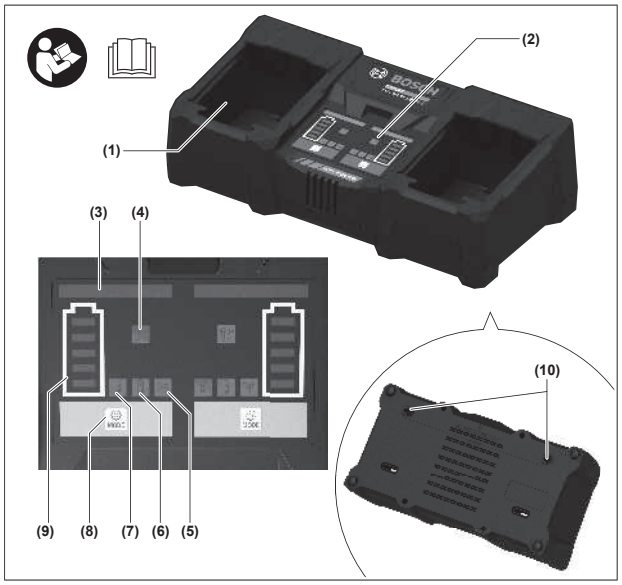
Product description and specifications

Intended use

The battery charger is intended for charging rechargeable Bosch Li-Ion batteries or those of the AMPShare partners.

Product Features

The numbering of the product features refers to the representation of the charger in the images.



(1) Charging bay
(2) Control panel
(3) Status indicator
(4) Active Air Cooling indicator
(5) Long Life charging mode indicator
(6) Power Boost charging mode indicator
(7) Standard charging mode indicator
(8) MODE button
(9) Battery charge indicator
(10) Wall mount
(11) Safety latch
(12) Cable outlet

Technical Data

Battery Charger	EXAL18V2-320
Protection class	⧈ / II
Max. charging current (per charging bay)	32 A (16 A)
Battery charging voltage (automatic voltage detection)	18 V ⎓
Weight[A)]	2.2 kg

A) Weight without mains connection cable and without mains plug

Values can vary depending on the product, scope of application and environmental conditions. To find out more, visit **www.bosch-professional.com/wac**.

Charging process

▸ **Check the mains voltage!** The voltage of the power source must match the voltage specified on the rating plate of the charger.

ⓘ Ensure that the charging bay **(1)** and the battery contacts are free of coarse dirt. Ensure that the battery is fully inserted.

The charging process begins as soon as the mains plug for the charger is inserted into the mains socket and the battery is inserted into the charging bay **(1)**.

ⓘ The 2 charging bays charge independently of each other.

ⓘ The charging process is only possible when the temperature of the battery is within the permissible charging temperature range:

– **GBA 18V... :** 0 °C to 45 °C
– **EXBA18V... :** −10 °C to 55 °C

Thanks to the intelligent charging process, the state of charge of the battery is automatically detected and then charged up with the optimal charge current depending on battery temperature, voltage and the charging mode selected.

A significantly reduced operating time after charging indicates that the battery has deteriorated and must be replaced.

When the charger is used continuously, or for several consecutive charge cycles without interruption, the charger may heat up. This is, however, harmless and does not indicate that the charger has a technical defect.

Charging times

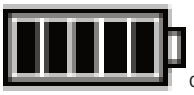
The following table displays the approximate time required in minutes in order to reach the required state of charge, depending on the battery type and charging mode. The charging times can vary. Further information on this can be found at: **www.bosch-professional.com/wac**.

Power Boost charging mode

The following charging times apply to one battery or two batteries that are charged simultaneously.

Rechargeable battery		
2x EXBA18V-40	≈**9**	≈**30**
2x EXBA18V-55	≈**11**	≈**31**
2x EXBA18V-80	≈**16**	≈**39**
2x EXBA18V-150	≈**27**	≈**60**

 corresponds to a state of charge of ≈ 50 %

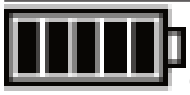
 corresponds to a full state of charge

Standard charging mode

The following charging times apply to one battery or two batteries that are charged simultaneously.

Rechargeable battery	
2x EXBA18V-40	≈**37**

Rechargeable battery	
2x EXBA18V-55	≈35
2x EXBA18V-80	≈46
2x EXBA18V-150	≈60

 corresponds to a full state of charge

Charging process

For charging the rechargeable batteries, you can choose between 3 different charging modes. Press on the MODE button **(8)** to switch between the following charging modes:

- Standard charging mode
- Power Boost charging mode
- Long Life charging mode

The corresponding symbol on the control panel **(2)** lights up.

Standard charging mode

The rechargeable battery is fully charged at the standard speed. The standard charging mode is preset on the charger. You can find the charging times in standard charging mode in the table: (see "Charging times", page 3)

The standard charging mode indicator **(7)** lights up during charging.

Power Boost charging mode

2x EXBA18V...	-40	-55	-80	-150
Power Boost ≈ 50%	9 min	11 min	16 min	27 min
Power Boost ≈ 100%	30 min	31 min	39 min	60 min

The rechargeable battery is fully charged at the fastest charging speed. Take the charging times with Power Boost from the table: (see "Charging times", page 3)

The Power Boost charging mode indicator **(6)** lights up during fast charging.

Long Life charging mode

The rechargeable battery is fully charged at a low charging speed. This has a positive effect on the service life of the battery.

The Long Life charging mode indicator **(5)** lights up during charging.

Meaning of Other Display Elements

Battery charge indicator

The charging process is indicated by the **flashing** of the battery charge indicator .

When the battery is fully charged, all bars on the battery charge indicator **(9)** light up green continuously.

Status Indicator

Green Continuous Light Status Indicator

The continuous green light on the status indicator **(3)** signals that there is no fault and the charger is ready for operation. If a battery is in the charging bay **(1)**, the continuous green light on the status indicator **(3)** signals that the battery is being charged on the charger without any problems.

When the battery is fully charged, the status indicator **(3)** continues to light up green.

Yellow Continuous Light Status Indicator Temperature Monitoring

The continuous yellow light on the status indicator **(3)** indicates that the temperature of the battery is outside the permissible charging temperature range (see "Charging process", page 3).

As soon as the permissible charging temperature range is reached, the charging process begins and the status indicator switches to green.

Continuous red light/flashing red light status indicator error

The red continuous light/flashing light on the status indicator **(3)** signals an error on the battery or charger.

Battery cooling (Active Air Cooling)

The charger monitors the temperature of the inserted battery. If necessary, the fans switch on to cool the battery.

The battery is cooled in 3 stages:

- Pre-cooling

– Cooling during the charging process
– Aftercooling

ⓘ The charger has its own cooling system that runs independently of the battery cooling.

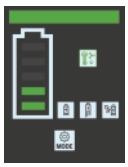
Pre-cooling

If the battery temperature is above the permissible charging temperature range (see "Charging process", page 3) before charging begins, the fans will be activated to cool the battery.

The charging process will start as soon as the battery temperature has reached the permissible charging temperature range.

During pre-cooling, the battery cooling is displayed as follows:

The Active Air Cooling indicator **(4)** lights up green and the status indicator **(3)** lights up yellow.

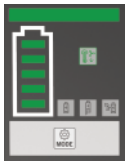


Cooling during the charging process

If, during the charging process, the charger detects that battery cooling is advantageous, the fans will be activated.

During the charging process, the battery cooling is displayed as follows:

The Active Air Cooling indicator **(4)** lights up green, the status indicator **(3)** lights up green and the bars of the battery charge indicator **(9)** light up green one after the other.



Aftercooling

If, after the charging process, the charger detects that battery cooling is advantageous, the fans will be activated.

During aftercooling, the battery cooling is displayed as follows:

The Active Air Cooling indicator **(4)** lights up green, the status indicator **(3)** lights up green and all bars of the battery charge indicator **(9)** light up green.

Operation

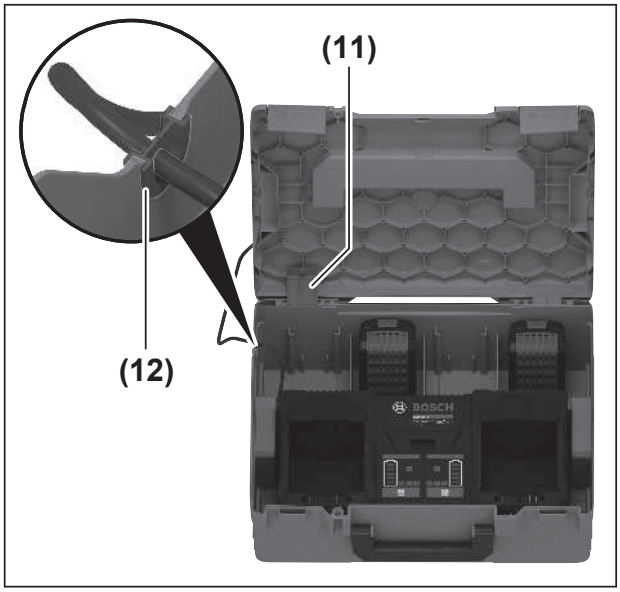
▸ Pull the plug out of the socket before carrying out any work on the charger.

The charger can be operated either upright (table operation) or hanging on the wall.

Operation in the L-BOXX

▸ The cover of the L-BOXX must remain fully open during charging. The safety latch must be attached to the lid of the L-BOXX. The charger cable must be fed through the cable outlet in the L-BOXX.

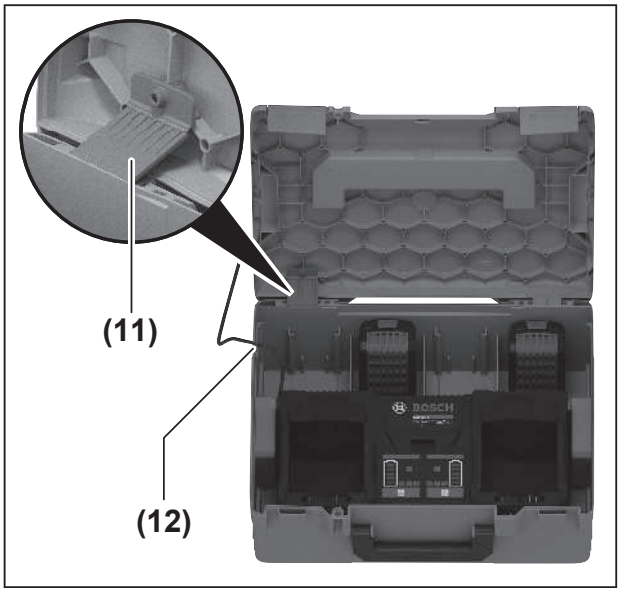
ⓘ The L-BOXX is not included with the product as standard.



Fitting the Charger

To use the charger in the L-BOXX, perform the following steps:

– Open the lid of the L-BOXX completely until the safety latch **(11)** clicks into place. The safety latch **(11)** prevents the lid of the L-BOXX from being closed unintentionally.
– Guide the charger cable through the cable outlet **(12)** in the L-BOXX and insert the mains plug in the socket.



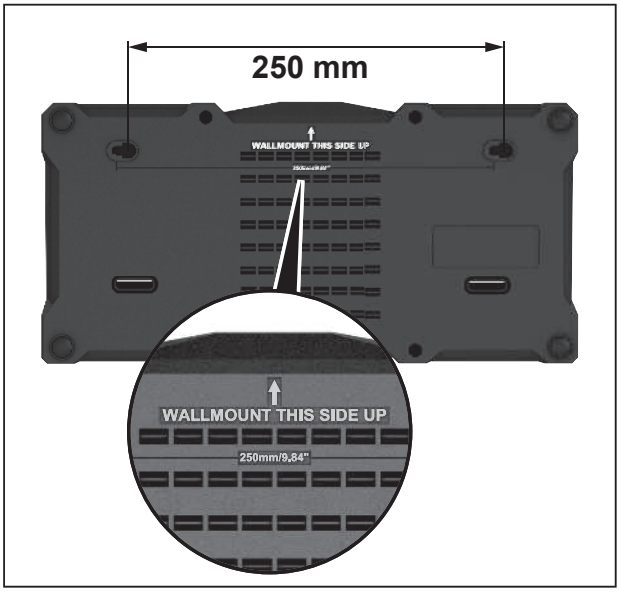
Preparing for Transport in the L-BOXX

Perform the following steps after operation and before transporting in the L-BOXX:

– Pull the mains plug of the cable out of the plug socket.
– Remove the charger cable from the cable outlet **(12)** and stow it in the L-BOXX so that it cannot be pinched.
– To close the L-BOXX, lift the safety latch **(11)** slightly. This allows the locking mechanism to be released by the safety latch.

– Close the lid of the L-BOXX completely.

Affixing to the Wall



When affixing to the wall using the wall mount **(10)**: Drill 2 holes leaving a clearance of **250 mm**. To secure it, use round-head screws with a diameter of 5 mm to max. 6.5 mm.

When affixing to the wall, observe the mounting direction indicated by the arrows on the underside of the charger. The guide rails for the batteries point upwards.

Troubleshooting

Battery is not charging

Battery is not charging and the indicators are not lighting up

Cause: Mains plug of the battery charger is not (correctly) plugged in

Corrective measure: Plug the mains plug (fully) into the plug socket.

Cause: Plug socket, mains cable or battery charger defective

Corrective measure: Check the mains cable and the mains plug. If necessary, have the charger checked by an authorised after-sales service centre.

Battery is not charging and both status indicators (3) light up red

Cause: The charger has identified an internal error

Corrective measure: Pull out the mains plug and make sure that the charger is cooled down. Reinsert the mains plug. If necessary, have the charger checked by an authorised after-sales service centre.

Battery is not charging and one status indicator (3) lights up red

Cause: The charger has identified an error on the battery

Corrective measure: Ensure that the battery is fully and correctly inserted and that the battery and/or charging contacts are clean. Remove the mains plug and reinsert. If the error occurs again, have the battery checked by an authorised after-sales service centre.

Cause: Battery defective

Corrective measure: Replace the battery.

Battery is not charging and the status indicator (3) lights up yellow

Cause: Battery temperature is outside the permissible charging temperature range

Corrective measure: If the battery temperature is above the permissible charging temperature range (see "Charging process", page 3), the Active Air Cooling function of the charger will switch on and cool the battery until the battery temperature is back within the permissible charging temperature range (see "Battery cooling (Active Air Cooling)", page 5).

If the battery temperature is below the permissible charging temperature range (see "Charging process", page 3), wait until the battery temperature is back within the permissible charging temperature range.

FAQ

Which charger is suitable for my battery?

All 18 V batteries are compatible with all Bosch Professional 18 V chargers and all 18 V chargers from the AMPShare partners.

We recommend that professional users combine the charger with a battery that has a charging time of less than one hour.

All charging times can be found in the online operating instructions or on the Bosch Professional website.

What are the charging times for my battery?

The charging time of the battery depends on two factors:

– Battery type and battery capacity

– Charging speed

All charging times can be found in the online operating instructions Charging times or on the Bosch Professional website.

Can batteries remain in the charger after they have been fully charged?

As soon as the battery is fully charged and the charger indicates this, the charging process is complete.

The battery can remain in the charger; however, storing the battery in the charger for any extended period of time is not recommended.

At what temperatures should a battery be charged, used and stored?

– The permitted ambient temperature during operation and storage is –20 °C to 50 °C.
– The recommended ambient temperature during the charging process is 0 °C to 35 °C.
– To ensure optimal battery service life, it is recommended that you store the battery at between 0 °C and 20 °C.

What battery charge is optimal when storing for an extended period of time?

A state of charge of 30–50% is ideal when storing for an extended period of time.

Are Bosch Professional batteries compatible with other brands?

All 18 V Bosch Professional batteries are compatible with the following products:

– all products from the Bosch Professional 18 V system
– all products from AMPShare partners

What battery charge is optimal for a longer service life?

A state of charge of 80% is ideal for a longer service life.

Can I adjust the charging speed of the charger?

On the , you can adjust the charging speed to your requirements. The has 3 charging modes that are optimised for the versatile use of rechargeable batteries:

– Standard charging mode with standard charging speed: The standard charging mode is preset ex works (see "Standard charging mode", page 4).
– Power Boost charging mode: Power Boost charging mode can be activated via the MODE button on the charger (see "Power Boost charging mode", page 4).
– Long Life charging mode: The Long Life charging mode can be activated using the MODE button on the charger (see "Long Life charging mode", page 4).

Maintenance and Service

Maintenance and Cleaning

In order to avoid safety hazards, if the power supply cord needs to be replaced, this must be done by **Bosch** or by an after-sales service centre that is authorised to repair **Bosch** power tools.

After-Sales Service and Application Service

Great Britain
Tel. Service: (0344) 7360109

GB Importer:
Robert Bosch Ltd.
Broadwater Park
North Orbital Road
Uxbridge

Malaysia
Tel.: (03) 79663194

In all correspondence and spare parts orders, please always include the 10-digit article number given on the nameplate of the product.

Disposal

Chargers, accessories and packaging should be recycled in an environmentally friendly manner.

Do not dispose of chargers along with household waste.

Only for EU countries and United Kingdom:

Electrical and electronic equipment that is no longer suitable for use must be collected separately and disposed of in an environmentally friendly manner. Use the designated collection systems.Incorrect disposal may cause harmful effects on the environment and human health, due to the potential presence of hazardous substances.

Only for United Kingdom:

According to The Waste Electrical and Electronic Equipment Regulations 2013 (SI 2013/3113) (as amended), products that are no longer usable must be collected separately and disposed of in an environmentally friendly manner.