

EXPERT

EXAL18V-160



Powered by



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.

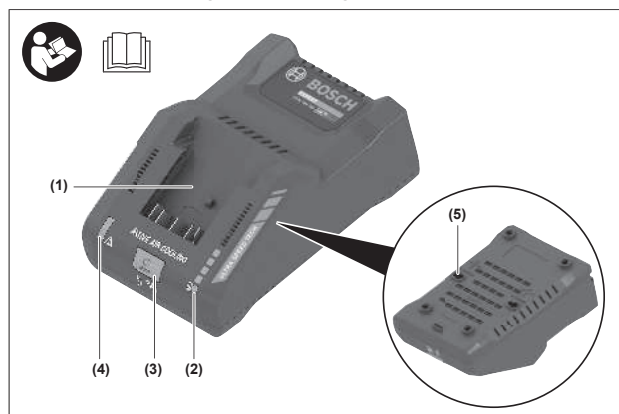
Product description and specifications

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) Green battery charge indicator
- (3) MODE button
- (4) Red temperature monitoring/error indicator
- (5) Wall mount

Technical Data

Battery Charger	EXAL18V-160
Protection class	□ / II
Charging current ^{A)}	16 A
Battery charging voltage (automatic voltage detection)	14.4–18 V 
Weight ^{B)}	0.95 kg

A) Depends on temperature and rechargeable battery type

B) 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 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

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



corresponds to a state of charge of ≈ 50 %



corresponds to a full state of charge

Standard charging mode

Rechargeable battery	
EXBA18V-40	≈ 37
EXBA18V-55	≈ 35
EXBA18V-80	≈ 46
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 **(3)** to switch between the following charging modes:

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

Standard charging mode



The rechargeable battery is fully charged. This charging mode is preset on the charger. The MODE button **(3)** will not light up. The standard charging mode provides a combination of fast charging time and full battery charge.

Power Boost charging mode

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

In this mode, rechargeable batteries with the fastest charging speed are completely charged. Take the charging times

with Power Boost from the table: (see "Charging times", page 3)



The MODE button (3) lights up red when the rapid charging mode is enabled.

Long Life charging mode



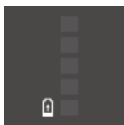
The rechargeable battery is fully charged. This mode charges the battery more slowly, protecting the battery and thereby significantly prolonging its service life.

The MODE button (3) lights up green during charging.

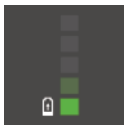
What the display elements mean

Green battery charge indicator

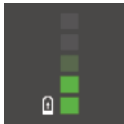
The charging process is indicated by the **flashing** of the battery charge indicator (2).



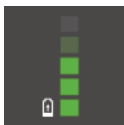
0–20 %



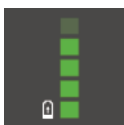
21–40 %



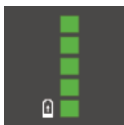
41–60 %



61–80 %



81–99 %



Fully charged

Continuous light red temperature monitoring indicator



The continuous light of the red indicator (4) signals that the temperature of the battery is outside of the permitted charging temperature range (see "Charging process", page 3). The charging process begins as soon as the permitted temperature range has been reached.

Flashing light red error indicator



The flashing light of the red display (4) indicates that the rechargeable battery or charger is faulty.

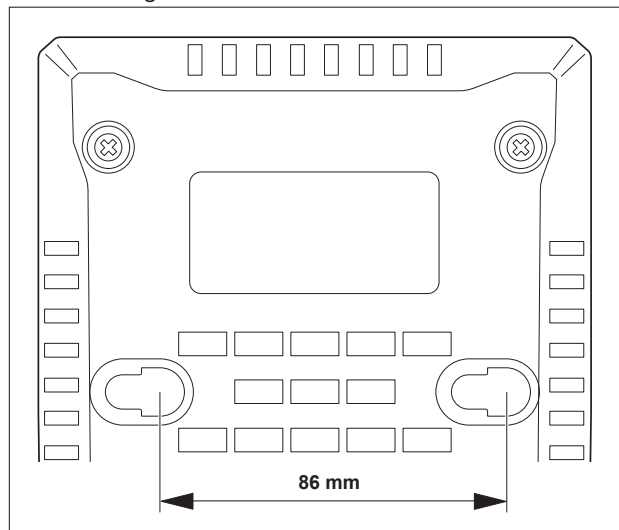
Battery cooling (Active Air Cooling)

The fan control unit integrated into the charger monitors the temperature of the inserted battery. As soon as the battery temperature is above approx. 0 °C, the fan switches on. The fan generates a ventilation sound when switched on.

If the fan does not run, it is defective or the battery temperature is < 0 °C. This can increase the charging time.

Wall mounting

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



The charger can be used either free-standing (for use on a desktop) or mounted on the wall.

When affixing to the wall: Drill 2 holes, leaving a clearance of **86 mm**. To secure it, use round-head screws with a diameter of 5 mm to max. 6.5 mm.

Troubleshooting

Battery is not being charged



Battery is not being charged and the red temperature monitoring/error indicator (4) is flashing red.

Cause: The charger has identified an internal error.

Corrective measure: Ensure that all batteries are fully inserted. Remove the mains plug and reinsert. If the error occurs

again, have the charger checked by an authorised after-sales service centre for **Bosch** power tools.

Cause: Battery is not correctly inserted.

Corrective measure: Insert the battery into the charger correctly.

Cause: The battery contacts and charging contacts are dirty

Corrective measure: Pull out the mains plug and (dry) clean the battery contacts and charging contacts.

Cause: Battery defective

Corrective measure: Replace the battery.



Battery is not being charged and the indicator (4) is lit up red.

Cause: Battery temperature is outside the permissible charging temperature range

Corrective measure: Wait until the battery temperature is back within the permissible charging temperature range (see "Charging process", page 3).

Indicators do not light up

None of the indicators are lighting up, battery will not be charged.

Cause: Plug socket, mains cable or battery charger defective

Corrective measure: Make sure that the charger is connected to a suitable plug socket that works. If the error occurs again, it may be necessary to have the charger checked by an authorised after-sales service centre.

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

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

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?

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 (see "Charging times", page 3) or on the Bosch Professional website.



Can I adjust the charging speed of the charger?

Can I adjust the charging speed of the charger?

On the **EXAL18V-160**, you can adjust the charging speed to your requirements. The **EXAL18V-160** 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 3).
- Power Boost charging mode: Power Boost charging mode can be activated via the MODE button on the charger Power Boost mode.
- Long Life charging mode: The Long Life charging mode can be activated via the MODE button on the charger (see "Long Life charging mode", page 4). Predominantly charging in service life charging mode leads to a longer battery service life.



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.

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



<https://www.bosch-pt.com/serviceaddresses>

Great Britain

Tel. Service: **(0344) 7360109**

GB Importer:

Robert Bosch Ltd.
Broadwater Park
North Orbital Road
Uxbridge
UB9 5HJ

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.

Manufacturer's warranty



<https://www.bosch-pt.com/guarantee/202601>

Legal Information and Licenses

1. Open Source Components

1.1 Name: **ARM_CMSIS_5**

Version: **5.7.0**

License: **Apache-2.0**

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1.2 Name: **STM32G0_HAL**

Version: **1.3.0**

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1.3 Name: **cmsis_device_g0**

Version: **1.4.2**

License: **Apache-2.0**

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