

Invented for life



BOSCH

Bosch C-Line Battery Chargers

Reliable power for every drive



Bosch C-Line Battery Chargers

Overview

Sooner or later, your car battery will need a charge and you don't want to be stranded on the side of the road when this happens. Batteries will lose charge as a result of long periods of non-use, frequent short distance driving, temperatures below zero degrees and numerous electronics that push a battery to its limits. Bosch C-line battery chargers provide reliable starting power and longer battery life – making their purchase a quick payoff for any passenger car, commercial, motorcycle, powersport or RV driver.



Bosch C-Line Battery Chargers

Applications

While cars and commercial vehicles normally are driven all year round, many vehicles are in use only seasonally or leisurely. These include, among others, two-wheelers, recreational vehicles (RVs), vintage cars and boats. No matter the usage frequency, regular recharging with a Bosch C-line battery charger reliably maintains your vehicle's functions and starting power.



Get started: safely charge two-wheeler batteries

Anyone who rides a two-wheeler wants to enjoy it – whether it's mastering winding roads and hairpin bends in the mountains, feeling the excitement of a new or favorite off-road trail adventure or experiencing pure freedom on the legendary Route 66. No matter if it's a scooter, a race bike or a touring motorcycle – nobody likes a vehicle that doesn't start. Regular recharging with a C-line battery charger supports reliable starts that make bikers' hearts beat a little faster.



Freedom and comfort: traveling in a RV

Most modern RVs come fully equipped with onboard technical devices for cooling, heating, cooking and grilling – as well as sanitary facilities with warm water. The supply of electricity to these devices depends on fully-charged batteries. Regular recharging with a Bosch C-line battery charger supports the reliable performance and lifetime of onboard electronics.



Trickle charge: brings oldtimers, youngtimers, RVs and boats through the cold season

Vehicles used only for leisure or in warm weather need to remain functional throughout the rest of the year. A Bosch C-line battery charger keeps a battery's voltage level constant. This prevents any standstill damage to the battery, so the vehicle remains at constant temperature, dry and ready to go when needed.

C40-Li and C80-Li Battery Chargers Program



| | C40-Li | C80-Li |
|--------------------------------------|---|---|
| | <p>The new C40-Li battery charger charges 12 V lithium (LiFePO4) and 6 V/12 V lead-acid (AGM, EFB, GEL and SLI)* batteries in motorcycles, cars, powersport vehicles, light-duty trucks, RVs and motorboats – with maximum charging current of 5 A and easy one-button operation.</p> | <p>The new C80-Li battery charger charges 12 V lithium (LiFePO4) and 6 V/12 V lead-acid (AGM, EFB, GEL and SLI)* batteries in motorcycles, cars, powersport vehicles, light-duty trucks, RVs and motorboats. It provides a maximum charging current of 15 A – with a unique 20 A Fast-Mode feature, a bright LED display and one-button operation that simplifies the charging process.</p> |
| Types of batteries | <p>6 V: AGM, EFB, GEL & SLI 12 V: LiFePO4, AGM, EFB, GEL & SLI</p> | <p>6 V: AGM, EFB, GEL & SLI 12 V: LiFePO4, AGM, EFB, GEL & SLI</p> |
| Scope of application | | |
| Maximum charging current | 5 A (±10%) | 15 A (±10%) |
| One-button operation | ● | ● |
| Automatic charge control | ● | ● |
| Spark protection | ● | ● |
| Trickle charging | ● | ● |
| Short-circuit protection | ● | ● |
| Reverse-polarity protection | ● | ● |
| Overheating protection | ● | ● |
| Memory function | ● | ● |
| Dust/splash water protection (IP 65) | ● | ● |
| Regenerative mode | ● | ● |
| Push mode | ● | ● |
| Quick mode | | ● |
| Power Supply Mode | | ● |
| Part number | 0 189 960 040 | 0 189 960 080 |

*AGM - Absorbent Glass Mat Battery; EFB - Enhanced Flooded Battery; GEL - Electrolyte Gel Battery & SLI - Starting Lighting & Ignition Battery

Accessories at a glance



| Battery charger | Mobile hook | Bag | Fixed terminals | Adaptable terminals | Eyelet cable |
|-----------------|-------------|-----|-----------------|---------------------|--------------|
| C40-Li | ● | ● | | ● | |
| C80-Li | ● | ● | ● | | ● |

C40-Li Battery Charger

Product details

The new **C40-Li battery charger** charges 12 V lithium (LiFePO₄) and 6 V/12 V lead-acid batteries (AGM, EFB, GEL & SLI batteries) in scooters, motorcycles, jet skis, snow mobiles, ATVs, UTVs, cars, light-duty trucks, RVs and motorboats – with a maximum charging current of 5 A and **easy one-button operation**.

Standby mode:

In case of inactivity or a charging error, the device automatically switches to standby mode. The battery is not charged.

Reverse polarity protection:

Lights up if the connection terminals are reversed.

Charging status indicators:

Display of charging progress in 4 stages of 25% each.

Push mode:

Try to start charging with a very deeply discharged battery (between 0.5 V and 3.75 V). In case of a charging error, the device switches to standby mode.



6 V motorcycle and scooter mode:

- Suitable for 6 V lead-acid batteries (1.2 Ah – 14 Ah)
- 7.2 V/1 A charging

Regeneration mode:

Slow pulse charging for gradual recovery of a deeply discharged battery.

Winter and AGM mode:

- Higher charging voltage
- Suitable for 12 V lead-acid batteries (2 Ah – 120 Ah)
- 14.7 V/5 A charging

Lithium 12 V mode:

- Suitable for 12 V LiFePO₄ batteries (14 Ah – 120 Ah)
- 14.2 V/5 A charging

12 V motorcycle-Li mode:

- Suitable for 12 V LiFePO₄ batteries (1.2 Ah – 14 Ah)
- 14.2 V/1 A charging

12 V motorcycle and car mode:

- Suitable for 12 V lead-acid batteries (2 Ah – 120 Ah)
- 14.4 V/5 A charging



Note: The C40-Li battery charger is also suitable for 12 V lead-acid batteries from 2 Ah in addition to the batteries specified in the user manual.

Advantages at a glance

- **Charging lithium batteries:** in motorcycles set to LiFePO₄ mode, 12 V LiFePO₄ batteries are charged with a charging current of up to 5 amps.
- **Reliable and efficient charging:** with its high charging power, the battery charger is faster and more powerful than standard chargers.
- **High level of safety and durability:** protects against overheating, short-circuit and reversed polarity – and is IP65 rated water-resistant (i.e., dust- and splashwater-proof).
- **Intelligent operation:** The integrated micro-processor ensures faster charging times. Also, the charger saves the last selected charging mode – allowing it to continue charging in the same mode in the event of a brief disconnection from the power supply.
- **Trickle charging and regenerative functions:** The battery charger is suitable for off-season / winter breaks and for extending the battery's service life.

C80-Li Battery Charger

Product details

The new **C80-Li battery charger** charges 12 V lithium (LiFePO4) and 6 V/12 V lead-acid batteries (AGM, EFB, GEL & SLI batteries) in scooters, motorcycles, jet skis, snow mobiles, ATVs, UTVs, cars, light-duty trucks, RVs and motorboats. It boasts a maximum charging current of 15 A – **with a unique 20 A Fast-Mode feature**, a bright LED display and **easy one-button operation** that simplifies the charging process.

Reverse polarity protection:

Lights up if the connection terminals are reversed.

Winter and AGM mode:

- Higher charging voltage
- Suitable for 12 V lead-acid batteries (2 Ah – 400 Ah)
- 14.7 V/15 A charging

Regeneration mode:

Slow pulse charging for gradual recovery of a deeply discharged battery.

Push mode:

Try to start charging a very deep discharged battery (between 0.5 V and 3.75 V). In case of a charging error, the device switches to standby mode.

Lithium 12 V mode:

- Suitable for 12 V LiFePO4 batteries (2 Ah – 400 Ah)
- 14.2 V/15 A charging

6 V motorcycle and scooter mode:

- Suitable for 6 V lead-acid batteries (2 Ah – 120 Ah)
- 7.2 V/5 A charging

12 V motorcycle and car mode:

- Suitable for 12 V lead-acid batteries (2 Ah – 400 Ah)
- 14.4 V/15 A charging

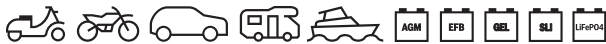
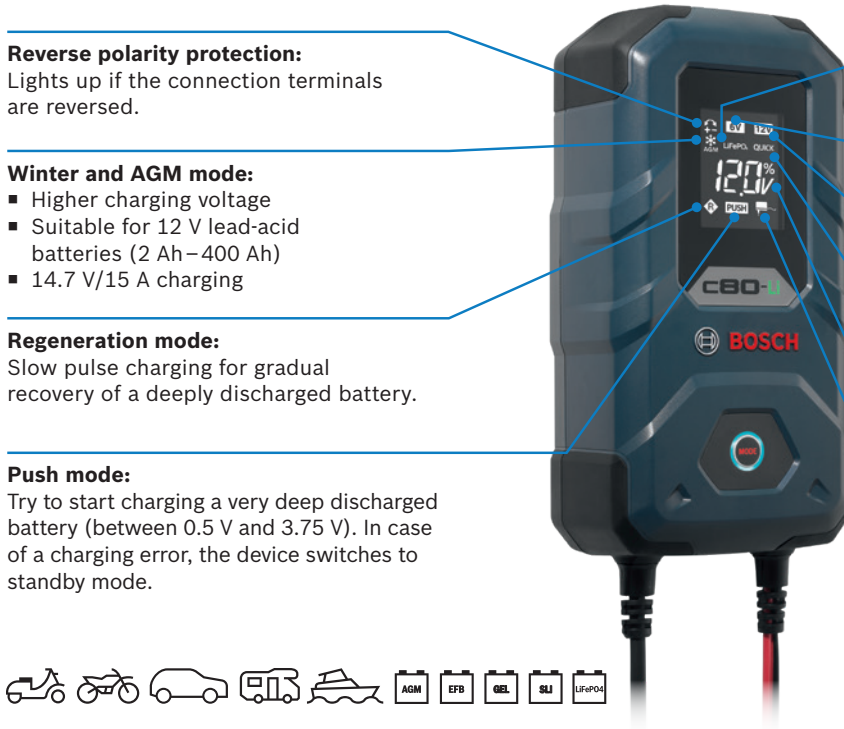
Quick mode:

Very fast charging at 20 A for five minutes to allow a quick reboot of the vehicle.

Display of battery voltage and charging rate on an LCD display

Power supply mode:

Powers vehicle electronics without interruption when replacing a 12 V battery, so that no vehicle settings are lost.



Note: The C80-Li battery charger is also suitable for 12 V lead-acid batteries from 2 Ah and 12 V LiFePO4 batteries from 2 Ah in addition to the batteries specified in the user manual.

Advantages at a glance

- **Charging lithium batteries:** the LiFePO4 mode charges 12 V LiFePO4 batteries with a charging current of up to 15 amps.
- **Power supply mode:** while the battery is being serviced or replaced, the battery charger supplies the vehicle with energy so that no vehicle settings are lost.
- **High level of safety and durability:** protects against overheating, short-circuit and reversed polarity – and is IP65 rated water-resistant (i.e., dust- and splashwater-proof).
- **Fast and efficient:** With its outstanding charging performance, the battery charger is faster and more powerful than a standard charger. Batteries are charged with a charging current of up to 20 amps in fast charging mode.
- **Intelligent operation:** The integrated micro-processor ensures faster charging times. The charger saves the last selected charging mode, so the charger can continue charging in the same mode in the event of a brief disconnection from the power supply.
- **Features trickle charging and regenerative functions:** the battery charger is suitable for off-season / winter breaks and for extending the battery's service life.

Bosch C-Line Battery Chargers

Charging modes

| Charging mode C40-Li | Supported battery types | Capacity | Charging power | Charging current |
|------------------------------|-------------------------|-----------------|------------------|------------------|
| 6 V mode | EFB, GEL, SLI | 1.2 Ah – 14 Ah | 7.2 V (±0,25 V) | 1 A (±10 %) |
| 12 V lithium motorcycle mode | Lithium (LiFePo4) | 1.2 Ah – 14 Ah | 14.2 V (±0,25 V) | 1 A (±10 %) |
| 12 V lithium mode | Lithium (LiFePo4) | 14 Ah – 120 Ah | 14.2 V (±0,25 V) | 5 A (±10 %) |
| 12 V motorcycle and car mode | EFB, GEL, SLI | 2 Ah – 120 Ah | 14.4 V (±0,25 V) | 5 A (±10 %) |
| 12 V winter and AGM mode | AGM, EFB, GEL, SLI | 2 Ah – 120 Ah | 14.7 V (±0,25 V) | 5 A (±10 %) |
| 12 V regenerative mode | AGM, EFB, GEL, SLI | 1.2 Ah – 120 Ah | 16.5 V (±0,5 V) | 1.5 A (± 0,3 A) |
| 6 V push mode | EFB, GEL, SLI | 1.2 Ah – 14 Ah | 7.2 V (±0,25 V) | 0.5 A (± 0,4 A) |
| 12 V push mode | AGM, EFB, GEL, SLI | 1.2 Ah – 120 Ah | 14.4 V (±0,25 V) | 0.5 A (± 0,4 A) |

| Charging mode C80-Li | Supported battery types | Capacity | Charging power | Charging current |
|------------------------------|----------------------------------|---------------|------------------|------------------|
| 6 V mode | EFB, GEL, SLI | 2 Ah – 120 Ah | 7.2 V (±0,25 V) | 5 A (±10 %) |
| 12 V lithium mode | Lithium (LiFePo4) | 2 Ah – 400 Ah | 14.2 V (±0,25 V) | 15 A (±10 %) |
| 12 V motorcycle and car mode | EFB, GEL, SLI | 2 Ah – 400 Ah | 14.4 V (±0,25 V) | 15 A (±10 %) |
| 12 V winter and AGM mode | AGM, EFB, GEL, SLI | 2 Ah – 400 Ah | 14.7 V (±0,25 V) | 15 A (±10 %) |
| 12 V quick mode | AGM, EFB, GEL, SLI | 2 Ah – 400 Ah | 14.4 V (±0,25 V) | 20 A (±10 %) |
| 12 V regenerative mode | AGM, EFB, GEL, SLI | 2 Ah – 400 Ah | 16.5 V (±0,5 V) | 1.5 A (±0,3 A) |
| 12 V power supply mode | Charger connected to the vehicle | – | 13.6 V (±0,5 V) | 5 A (± 10%) |
| 6 V push mode | EFB, GEL, SLI | 2 Ah – 120 Ah | 7.2 V (±0,25 V) | 1.5 A (±0,5 A) |
| 12 V push mode | AGM, EFB, GEL, SLI | 2 Ah – 400 Ah | 14.4 V (±0,25 V) | 1.5 A (±0,5 A) |

Bosch C-Line Battery Chargers

Tips and tricks

Winterizing your car, putting your boat into operation, safely charging or exchanging your vehicle's battery – every charging process is different. Bosch C-line battery chargers provide special technical features to make charging faster and easier.



Trickle Charging:

Will your vehicle be stored for long periods of time – especially in the cold months?

The trickle charge mode prevents the battery from discharging by charging it continuously. This not only ensures that the vehicle starts without any problems, trickle charging also increases the lifespan of the battery and reduces the number of necessary battery changes.

Reverse Polarity Protection:

Unsure if the battery charger terminals are connected correctly or is the connection polarity no longer visible on the battery?

The reverse polarity protection built into Bosch C-line battery chargers prevents damage to

the battery due to incorrect connection of the terminals. If the terminals are connected the wrong way round, an LED lights up on the display. Then all you need to do is swap the terminals so the charging process can start without damaging the battery.

Power Supply Mode – C80-Li only:

If the battery is replaced, are the vehicle settings retained?

The C80-Li Power Supply Mode enables the power supply of the vehicle during a battery change. This leaves the vehicle settings intact so the vehicle can be used immediately afterwards – without requiring any time-consuming setting adjustments.

What drives you, drives us

Bosch technologies are used in most vehicles worldwide. People, and assuring their mobility, is our main focus.

We have dedicated over 130 years of pioneering spirit and expertise in research and manufacturing to achieving this goal.

We provide the aftermarket and workshops worldwide with modern diagnostic and workshop equipment and a wide range of spare parts for passenger, commercial, powersport, marine and recreational vehicles including:

- solutions for efficient vehicle repairs
- innovative workshop equipment and software
- one of the world's most comprehensive ranges of new and exchange parts
- large network of wholesale customers, for quick and reliable parts supply
- competent hotline support
- comprehensive educational and training offers
- targeted sales and marketing support



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