



Bosch C3 and C7 Battery Chargers:

Smart, safe and simple to use



BOSCH

Invented for life

The smart charger for many applications



Did you know?

The intelligent characteristics of the Bosch C3 and C7 battery chargers enable them to charge a variety of battery types:

- ▶ **Wet lead acid** (including calcium and calcium-silver)
- ▶ **AGM** (absorbent glass mat)
- ▶ **Gel**
- ▶ **VRLA / SLA**

Dual voltage battery capability

- ▶ C3 - 6 and 12 volt
- ▶ C7 - 12 and 24 volt

The intelligent charging method makes them ideal for many applications:

- ▶ Classic cars with 6 or 12 volt batteries
- ▶ Motorcycles and ATV's with 6 or 12 volt batteries
- ▶ Modern vehicles with complex electronics
- ▶ Trucks with 12 or 24 volt batteries
- ▶ Boats
- ▶ Jet skis and PWC's
- ▶ Caravans
- ▶ Ride on lawn mowers and more



Safe and simple to use



Safety first

The C3 and C7 'standby' mode, de-energises the battery charger terminals in the following situations:

- ▶ The terminals are installed incorrectly to the battery
- ▶ There is an open circuit
- ▶ The battery voltage is below 7.5V for a 12V battery or 16V for a 24V battery
- ▶ The battery charging time has exceeded 41 hours
- ▶ The regeneration process has exceeded 7 hours

Overheating protection

- ▶ The charger will draw less electricity if it becomes excessively hot, protecting it from overheating

Safety standards

- ▶ The C3 and C7 battery chargers meet the IP65 dust and splashproof standards
- ▶ The C3 and C7 battery chargers are certified to Australian electrical safety standards

Simple to use

The C3 and C7 battery chargers are designed to make charging simple:

- ▶ One button operation
- ▶ The memory function saves the last setting in the case of a power outage or disconnection
- ▶ Automatic charging – no risk of overcharging
- ▶ A cable adapter with fuse can be permanently fitted to the battery terminal so that the charger can be easily connected
- ▶ The C3 comes with a mounting hook for convenient placement of the charger while in use or storage
- ▶ The C7 comes with a wall mount for convenient placement of the charger while in use or storage



The Bosch C3: 6 & 12 volt battery charger



Battery charger C3:
Output voltage 6V / 12V

The **C3** is ideal for charging and maintaining lead acid wet, gel, AGM and VRLA / SLA batteries up to 120Ah (12V) / 14Ah (6V).

The C3 is a **four-stage** automatic battery charger with the capability of maintaining a battery and recovering a short-term deeply discharged battery with pulse charging (e.g. the vehicles lights were left on overnight).

Trickle charging

The charger switches automatically to trickle charging mode when the battery is fully charged. In this mode, a small current is delivered to the battery when necessary to keep the battery fully charged.

Pulse charging

The charger operates automatically in pulse charging mode to recover a short-term deeply discharged battery (e.g. the vehicles lights were left on overnight).

Mounting hook

The C3 comes with a mounting hook making storage and use convenient.

	Battery types	Single-button operation	Automatic charging	Spark protection	No risk of overcharge	Short-circuit / reverse-connect protection	Overheating prevention
C7	●	●	●	●	●	●	●
C3	●	●	●	●	●	●	●

● Included in supply ○ Available as accessory

The Bosch C7:

12 & 24 volt battery charger



The C7 is ideal for charging and maintaining lead acid wet, gel, AGM and VRLA / SLA batteries up to 230Ah (12V) / 120Ah (24V).

The C7 is a **six-stage** automatic charger with great extra features including:

Regeneration mode can recover deeply discharged batteries with a constant current of 1500ma.

Power backup can be used to supply power to the vehicle's electrical system maintaining the system's setting whilst charging the battery. It can also be used as a power supply for accessories like a cooler box. (12V batteries above 14Ah)

Wall mount

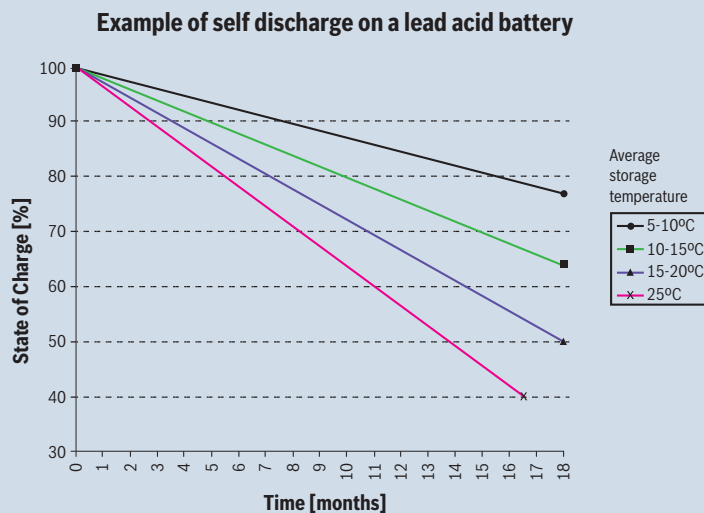
The C7 comes with a mount that can be fitted to a wall, making storing and use of the charger convenient.



Battery charger C7:
Output voltage 12V/24V

Memory function	Wall mount	Mobile hook	Charges discharged batteries	Power supply 13.6V / 5 A	12V: 14 – 230 Ah 24V: 14 – 120 Ah	6V: 1.2 – 14 Ah 12V: 14 – 120 Ah
●	●	○	●	●	●	●
●	○	●				●

Avoid unnecessary and expensive battery replacement



Avoid replacing the battery in your classic car or boat every time you want to use it!

Batteries self discharge when not in use. When a battery is in a low stage of charge, sulfation begins to occur on the battery plates. If the battery is left in this state for too long, it will not be able to be recharged.

The C3 or C7 deals with this issue using the trickle charge mode. Simply connect the device to the battery and the charger will monitor and keep the battery at a high charge level.

Modern vehicles have an increasing number of electrical accessories, which place significant demands on the vehicle battery:

- ▶ Seat heating
- ▶ Air-conditioning
- ▶ Power-windows
- ▶ Audio systems
- ▶ Navigation unit
- ▶ Electronic control units in the vehicle

Did you know?

In winter, your vehicle requires considerably more electrical energy, which places higher demand on your vehicle's battery. Additionally, if many comfort and convenience functions have to be supplied and the battery is subjected to particularly high loads on short journeys, your battery will deteriorate. Charging with the C3 or C7 helps avoid premature battery failure.

C3 and C7 battery charger features



Battery charging cables with plug in connection



C3 with mounting hook



SmartAMPs Technology

Continuously monitors the condition of the battery at every phase to charge at the optimum current and avoid under or overcharging



Safe

Automatically protects against sparking, short circuit, reverse polarity and overheating



Automatic Shut Off

In situations when there is an open circuit, incorrectly connected battery and/or abnormal charging time



MCU Processor

Provides state-of-the-art charging to ensure the longest life of your battery



Cold/AGM Mode

The optimal mode to charge AGM batteries or batteries at temperature $<5^{\circ}\text{C}$



Recovery Mode

Recovers deeply discharged and sulfated batteries (voltage of 7.5 – 10.5V) with pulse charging



Maintenance Charging

No risk of overcharging as it can be left connected to batteries indefinitely



Single Button Operation

Simply plug in, turn on, select your mode and begin charging



All types of lead acid batteries

Safely charges AGM, WET, GEL and VRLA / SLA



Automatically detects voltage (C3 is 6/12V)

Automatically senses the battery voltage when connected



Regeneration Mode (C7 only)

Regenerates a short term deeply discharged battery (such as when the car lights are left on overnight)



Power Supply (C7 only)

The charge delivers a constant current to the DC cable clips at all times



IP65

Dustproof and splashproof

Technical Specifications



C3

Rated output voltage:	6V / 12V
Rated output current:	0.8A / 3.8A
Stages:	4
Charging voltage:	14.7V (+0.25V) 14.4V (+0.25V) 7.2V (+0.25V)
Charging current:	3.8 A (+ 10 %) 0.8 A (+ 10 %)
Degree of protection:	IP65 (dustproof, splashproof)
Battery type:	6V + 12V lead acid battery (AGM, GEL, WET and VRLA / SLA)
Battery capacity:	6V: 1.2Ah – 14Ah 12V: 1.2Ah – 120 Ah
Fuse (internal):	1.6A
Noise level:	< 50 dBA
Ambient temperature:	0 to +40°C
Dimensions:	185 x 81 x 55 mm (L x W x H)

C7

Rated output voltage:	12V / 24V
Rated output current:	3.5A / 7A
Stages:	6
Charging voltage:	28.8V / 29.4V (+0.6V) 14.4V / 14.7V (+0.25V) 13.6V / 16.5V (+0.25V)
Charging current:	7 A (+0.7A) 5 A (+0.5 A) 3.5A (+0.35A) 1.5A (+0.3A)
Degree of protection:	IP65 (dustproof, splashproof)
Battery type:	12V + 24V lead acid battery (AGM, GEL, WET and VRLA / SLA)
Battery capacity:	12V:14Ah – 230Ah 24V:14Ah – 120Ah
Fuse (internal):	10A
Noise level:	< 50 dBA
Ambient temperature:	0 to +40°C
Dimensions:	197 x 108 x 65 mm (L x W x H)

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