



**BOSCH**

Invented for life

Driven by  
**HIGH PERFORMANCE**

**Battery service equipment from Bosch**

The professionals for testing,  
charging and starting

# Battery service equipment from Bosch

## **The battery: center for voltage supply in innovative vehicle components**

The battery service presents demanding challenges for the testers used today. No voltage spikes that can result in sensor malfunctions may occur during charging. Bosch battery chargers allow starter batteries to be charged carefully even while installed. High power reserves translate into successful starting assistance under all temperature conditions.

When testing the state of the battery, flexibility is decisive: Bosch battery testers allow both 12-V starter batteries and alternators with a rated output of 12 V to be tested quickly and easily.

## **Modern test equipment strengthens the workshop's expertise**

The extent of complex electrical and electronic systems increases with every new vehicle generation. Such systems are increasingly replacing mechanical and hydraulic components. The additional driving comfort and product quality enjoyed by customers presents totally new demands on the capabilities of the automobile workshop.



### **Your advantages:** reliability, speed and fairness

- ▶ First class quality and high reliability for charging, testing and starting batteries
- ▶ Extensive systems expertise and wide range of products
- ▶ Technology adapted to current market requirements





## Did you know?

Since 2009, the Euro 5 Standard has required that vehicle manufacturers provide technical repair information via their online portals for all independent workshops. Original manufacturer data for diagnosis, service, repair and maintenance has been available to independent workshops since then. With the Bosch PassThru software and the software from the respective vehicle manufacturer, it is possible to use the original information from the manufacturer for diagnosis in independent workshops.

A few steps must be considered for reprogramming. It is important to ensure sufficient battery voltage on the vehicle. Reprogramming requires up to 90 ampere during continuous operation. An interruption of the connection during the Bosch Euro 5 installation or the reprogramming can damage the control unit!





# Universal battery charger

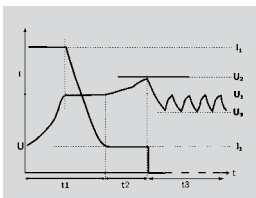
Fully automated charging, back-up and buffer mode



**BAT 645**

☎ 0 687 000 164

The new battery chargers BAT 645 and BAT 690 are two universal devices with a continuous output current of 45 and 90 ampere that are available as of now. Both chargers can be used for both 12 V passenger car and 24 V commercial vehicle electrical systems. Back-up and buffer operation is available. The USB port for software updates allows the installation of characteristics for new battery types and guarantees that the devices are always state-of-the-art.



## Charging cables:

- ▶ Detachable, 45 A, length 3 m – 6 mm<sup>2</sup>, optional 5 m – 6 mm<sup>2</sup>
- ▶ Detachable, 90 A, length 3 m – 16 mm<sup>2</sup>, optional 5 m – 16 mm<sup>2</sup>



**BAT 690**

☎ 0 687 000 169

## Product characteristics

- ▶ 45 A or 90 A – for all lead acid battery types (standard, maintenance-free, gel, fleece, AGM, EFB) and new Li-Ion – Lithium Iron Phosphate (LFP)
- ▶ Fully automatic charging characteristics – universal for all battery types (UNI) and specific characteristics for WET, AGM, GEL, EFB and LFP and soft charging phase for deeply discharged batteries (automatic)
- ▶ Backup mode – maintains voltage supply to buffer data (e.g. car stereos, supply and control units, etc.) during battery replacement
- ▶ Buffer mode – keeps SOC of the battery and stabilizes vehicle electrical systems (engine is off)
- ▶ HMI with a dot matrix display – 18 languages
- ▶ Electronic protection management system
- ▶ USB port for SW updates
- ▶ Exchangeable charging and power cord cables
- ▶ Charger holder for wall mounting

Technical data	BAT 645	BAT 690	
Max. charge current intensity	12 V 24 V	45 A 22.5 A	90 A 45 A
Charging characteristic	I1U1I2aI3aI3...	I1U1I2aI3aI3...	I1U1I2aI3aI3...
Backup mode	12 V / 24 V max. 20 A	12 V / 24 V max. 30 A	12 V / 24 V max. 30 A
Buffer mode	13 V / 26 V max. 45 A / 22.5 A	13 V / 26 V max. 90 A / 45 A	13 V / 26 V max. 90 A / 45 A
Operating temperature range	-5 °C – +45 °C	-5 °C – +45 °C	-5 °C – +45 °C
Voltage	230 V, 50/60 Hz	230 V, 50/60 Hz	230 V, 50/60 Hz
Power consumption	Max. 800 W	Max. 1,600 W	Max. 1,600 W
Protection type (DIN 40050)	IP 20 D	IP 20 D	IP 20 D
Dimensions (W x H x D)	220 x 115.5 x 296 mm	220 x 115.5 x 473 mm	220 x 115.5 x 473 mm
Weight (without charging and power cable)	3.7 kg	6.6 kg	6.6 kg

# Battery tester

## The best to test



### BAT 115 Battery tester (with integrated printer)

☎ 0 687 000 115

Easy testing of 6 V and 12 V starter batteries. Lead-acid, EFB, Gel as well as AGM batteries. 12V and 24V charging systems can also be tested.

- ▶ Various tests for 6 V and 12 V batteries as well as 12 V and 24 V starter and charging systems
- ▶ Micro-Load tests for reliable measurement results
- ▶ Practical due to large LCD screen and user-friendly menus
- ▶ Integrated printer for printing the test results
- ▶ Menu-guided intuitive operation in 25 languages
- ▶ Large working radius due to 1.8 m test cable
- ▶ Robust housing, long-lasting technology



### BAT 131 (with integrated printer)

☎ 0 684 400 731

Perfectly suitable for testing 6 V and 12 V starter batteries (lead-acid, gel and fleece batteries / AGM). The stress-free test process leads to quick, precise and reliable measurement results.

- ▶ Optimized test algorithm to test new, unused and in-stock batteries
- ▶ Extended test of the start/charge system for 12 V and 24 V batteries.
- ▶ Saves up to 100 test results; USB port to download test results and future software updates
- ▶ Replaceable 3 m cable that allows flexible working

### Amps clamp (optional)

☎ 1 681 354 034

Technical data	BAT 115
Battery nominal voltage	6 V / 12 V
Application	Passenger car, light commercial vehicle, motorcycle, marine
Test standards	EN, EN2, DIN, SAE, IEC, JIS, MCA
Battery size (acc. to CCA)	40 – 2.000 A
Start / charge system test	12 V / 24 V
Printer	Integrated thermal printer
Menu languages	25
Dimensions (W x H x D)	approx. 250 x 130 x 60 mm
Weight	1,100 g
Operating temperature	0 °C - 40 °C

Technical data	BAT 131
Battery nominal voltage	6 V / 12 V
Application	Passenger car, commercial vehicle, ship
Test standards	JIS, EN, DIN, SAE, IEC, EN2
Battery size (acc. to CCA)	100 – 2,000 A
Start / charge system test	12 V / 24 V
Printer	Integrated thermal printer
Menu languages	21
Dimensions (W x H x D)	approx. 270 x 113 x 50 mm
Weight	approx. 700 g
Operating temperature	0 °C – 40 °C

# Accessories

## Battery service



**Trolley**

1 687 012 102

Fig. top left: with three trays, easy-running wheels, locking brake.



**Battery pliers**

red handle

8 784 490 027

black handle

8 784 490 026

Fig. top center: load current up to 20 A. Connection to charging line up to 4 mm<sup>2</sup> soldered. Surface nickel-plated.

**Battery pliers** red handle  
blue handle

8 787 955 003

8 787 955 004

No fig.: load current up to 1,000 A. Connection to charge line up to 50 mm<sup>2</sup> via thread socket. Especially strong red brass pliers, fully insulated. Copper band for better conductivity.

**Battery pliers**

red handle

8 787 955 013

blue handle

8 787 955 014

Fig. top right: load current up to 600 A. Connection to charge line up to 25 mm<sup>2</sup> via cable shoes A 6. Steel plate pliers, reinforced shoes, surface leaded, full insulated. Copper band for better conductivity.



### Perfect energy source for all passenger car batteries by Bosch:

Modern vehicles are using more and more components that require electrical power. The power supply requires high performance and safety. Bosch batteries ensure this and supply the right energy for every task.

### High market coverage

The market coverage for Bosch batteries is at almost 96 %.

### Program flexibility

State-of-the-art technologies, optimal voltage supply, manifold applications and custom-tailored battery program. New battery types can be quickly integrated.

### Reliable power, maximum safety

Bosch batteries are tested in line with strict safety and stress criteria and regularly monitored when being used on the market.





# What drives you, drives us

Bosch technologies are used worldwide in almost all vehicles. People, and assuring their mobility, is what we are focused on.

Therefore, we have dedicated the last 125 years of pioneering spirit and expertise in research and manufacturing to achieving this.

We continue to work on our unique combination of solutions for spare parts, diagnostic devices, workshop equipment and services:

- ▶ Solutions for efficient vehicle repairs
- ▶ Innovative workshop equipment and software
- ▶ The world's most comprehensive range of new and replacement 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

**Find out more at:**  
[bosch-automotive-aftermarket.com](https://www.bosch-automotive-aftermarket.com)

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