

Battery Service

BAT 645 / 690



UNIVERSAL BATTERY CHARGER – FULLY AUTOMATIC AND FUTURE-PROOF



BENEFITS OF THE BAT 645 & 690 AT A GLANCE

- ▶ 45 A or 90 A – universal battery chargers for all lead acid battery types and new Li-Ion – Lithium Iron Phosphate
- ▶ 12 V / 24 V for cars and trucks with automatic selection
- ▶ 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 maintaining current supply to buffer data during battery replacement
- ▶ Floating mode which keeps SOC of the battery and stabilizes vehicle electrical systems (engine is off)
- ▶ HMI with a dot matrix display
- ▶ Electronic protection management system
- ▶ USB port for SW updates
- ▶ Exchangeable charging and power cord cables
- ▶ Charger holder for wall mounting

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SOLUTION-ORIENTED

The new BAT 645 and 690 battery chargers from Bosch offer automotive workshops two universally applicable professional devices featuring 45 or 90 A of continuous current output. Automatic detection of the required nominal voltage means both chargers can be used for 12-volt car batteries and 24-volt commercial vehicle batteries alike.

UNIVERSAL

In addition, the BAT 645 and BAT 690 feature both a back-up and floating mode. During back-up mode, the device ensures the vehicle's power supply in case the starter battery has been removed. The floating mode is becoming increasingly important in everyday workshop life. The battery charger supports the on-board power supply during control unit updates for example.

FUTURE-PROOF

The new battery chargers are equipped with a USB port making software updates easy. This allows the upload of characteristics for innovative types of batteries – ensuring the devices are always up to date. In addition, the BAT 690 has Wi-Fi connection to enable its future integration into workshop networks.

Technical Data		
	BAT 645 0 687 000 164	BAT 690 0 687 000 169
Max. Charge current intensity	12 V, 45 A 24 V, 22.5 A	12 V, 90 A 24 V, 45 A
Length of the charging cable	2 x 3 m	2 x 3 m
Cross-section charging cable	6 mm ²	16 mm ²
Power input	Max. 800 W	Max. 1600 W
Weight (without charging and power cable)	3.7 kg	6.6 kg
Charging characteristic	I1U1I2aI3aI3...	I1U1I2aI3aI3...
Backup mode	12.0 V / 24.0 V max. 20 A	12.0 V / 24.0 V max. 30 A
Floating-mode operation	13.0 V / 26.0 V max. 45 A / 22.5 A	13.0 V / 26.0 V max. 90 A / 45 A
Function temperature range	-5°C – +45°C	-5°C – +45°C
Main voltage	230 V, 50/60 Hz	230 V, 50/60 Hz
Battery nominal voltage	12 V / 24 V	12 V / 24 V
Protection type (DIN 40050)	IP 20 D	IP 20 D
Safety class (DIN 40530)	SK I	SK I
Dimensions (W x H x D)	220 x 115.5 x 296 mm	220 x 115.5 x 473 mm
Emitted interference level (DIN 40839)	Class B	Class B



Bosch Workshop World
<http://www.bosch-workshop-world.com>

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