

BAL 2260 charger/discharger for offline HV battery pack modules

The Bosch BAL 2260 charger/discharger diagnoses the state of charge (SOC) at module level and balances it individually.

BAL 2260: Charging/discharging HV battery modules

The BAL 2260 is a battery pack module charging and discharging device, primarily used for the rapid charging and discharging of offline battery pack modules in electric vehicles, enhancing the maintenance efficiency. In most cases the BAL 2260 is connected with the positive and negative terminals. It performs rapid charging and discharging under high voltage and large current from the module end – rapidly bringing the battery pack to the defined target level.

BAL 2260: Diagnosing a wide range of battery types

The portable BAL 2260 diagnoses the state of charge (SOC) of high-voltage batteries at module level and balances it by individually charging and discharging. The device supports ternary lithium batteries, lithium titanate batteries, lithium manganese batteries, phosphorus batteries, but also an expert setting for other battery types.

Training requirements:

The BAL 2260 charger/discharger should only be used by technicians with an appropriate HV qualification. Bosch recommends the **VSH33: High Voltage Battery Repair** course.



Bosch BAL 2260 charger/discharger – featuring automatic online updates, situation alarm and detailed test reports



Advantages for the workshop:

- **Real time automatic voltage detection:** Fast status check of cell and wire connection through immediate voltage detection after the BAL 2260 has been connected
- **High Efficiency:** Reduction of maintenance time thanks to rapid charging and discharging with high voltage and large current
- **Comprehensive monitoring:** Real-time control of voltage, current and temperature for battery health and wiring integrity
- **Quick initialization:** Pre-installed software and guided start-up for fast and easy setup without the need for manual installation
- **Emergency protection and alarms:** An emergency stop button ensures immediate power cut-off to protect both users and equipment in critical situations along with multi-faulty alarms, to avoid damage to users and the equipment from improper operation.
- **Multiple protection mechanisms:** Safe operation through over-voltage, under-voltage, over-current, short circuit and over-temperature protections
- **Easy data management:** Generating, exporting and printing of detailed charging and discharging reports for convenient sharing and analysis

Charging and discharging HV battery pack modules in the workshop

The BAL 2260 charger/discharger is an essential tool for workshops involved in maintaining or optimizing battery packs of electric vehicles:

- **Efficiency and speed:** Its high voltage and large current capabilities allow for rapid charging and discharging, significantly reducing downtimes and enhancing the productivity.
- **Comprehensive monitoring:** Real-time monitoring of voltage, current, and temperature helps ensure the health and safety of the battery packs, preventing potential failures before escalation.
- **User-friendly interface:** Easy to use thanks to its pre-installed software and quick initialization, the BAL 2260 allows to focus on the maintenance without complicated setups.
- **Safe operation:** With multiple built-in protection mechanisms against over-voltage, under-voltage, over-current, short circuits, and over-temperature, the BAL 2260 ensures the safe operation for both user and equipment.
- **Scalability and flexibility:** Supporting up to 2 measuring boxes for monitoring up to 48 cells, the BAL 2260 meets current needs and offers the scalability for future requirements.
- **Detailed reporting:** Automatically generated charging and discharging reports for easy tracking and sharing of maintenance activities, ensuring transparency and effective communication with clients.



Technical data	
Power input	AC 90–264 V/40–60 Hz 16 A
Display	10" LCD touchscreen
Embedded storage	32 GB
Dis/charging power	Max. 7 kW/3.5 kW
Dis/charge voltage	DC 2 – 260 V
Dis/charge current	0–60 A
Single battery cell voltage collect channel	24 channels
Current battery support	LFP, NCM, LTO, LMO, NiMH
Current control accuracy	±0.5% FS
Voltage control accuracy	±0.1% FS
Weight	approx. 27 kg

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Find out more about Bosch service trainings by scanning the QR code!



Bosch – a strong partner in technical workshop support



Bosch workshop support on high-voltage systems

Bosch offers extensive workshop equipment and technical support for diagnosis and repair of HV systems:

- FSA 050 – Hybrid handheld multimeter
- KTS 560 – ECU diagnostic tester (1-channel multimeter)
- KTS 590 – ECU diagnostic tester (2-channel multimeter and oscilloscope)
- Diagnostic software ESI[tronic] Evolution
- KTS + ESI[tronic] incl. Secure Diagnostic Access (SDA)
- Technical support via Bosch Remote Diagnostics

