



Operating instructions

Single charger BST-BC-2830(-USA)

NOTE

In case of doubt, the original German version of the operating instructions applies.

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1 Basic information

1.1 Purpose of this document

This information has been written with the intention of being read, understood and adhered to in all aspects by those who bear responsibility for this battery charger. The information contained in this document is important for avoiding workplace mishaps and ensuring problem-free operation. If, despite this, problems are encountered, then please contact us; we would be pleased to help you.

1.2 Intended use

The tool may only be used to charge matching Bossard SmartTool batteries as specified in this manual.



NOTICE

Intended use includes the following:

- Observing all information in the operating instructions and
- complying with the inspection and maintenance tasks.

The quick charger serves to recharge the following Bossard SmartTool batteries:

Article no.	Article description
BST-LB-1825	Li-Ion battery 18 V / 2.5 Ah
BST-LB-1850	Li-Ion battery 18 V / 5.0 Ah

1.2.1 Improper use

We bear no liability for damage or operating problems resulting from noncompliance with these operating instructions or improper use.

1.3 Warranty and liability

Warranty and liability claims for personal and property damage are excluded if they occur as the result of one or more of the following:

- Unintended usage of the Bossard SmartTool charger
- Improper installation, placement into service, operation and maintenance of the device
- Operation of the device in case of defective safety equipment or improperly mounted or non-functional safety and protection equipment
- Failure to comply with the information contained in this document regarding transport, storage, installation, placement into service, operation, and maintenance of the device
- Unauthorized structural modifications of the device
- Improperly performed repair work
- Catastrophic events beyond human control and acts of God

1.4 Structure of the warnings

The warnings are structured as follows:



DANGER

Indicates an immediate dangerous situation that can lead to serious or even deadly injuries and/or that could seriously damage or even destroy the tool.



WARNING

Indicates a potentially dangerous situation that can lead to serious injuries and/or damage to the tool.



NOTE

Important and useful information on using this tool.

1.5 Copyright

This document is intended only for the owner and personnel authorized to operate the tool. It contains the relevant rules and information, which may not be

- duplicated
- distributed or
- otherwise shared, either in whole or in part

The copyright for these operating instructions remains with HS-Technik GmbH / Bossard AG.

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2 Basic safety information

2.1 Information contained in this document

A basic prerequisite for safety-compliant handling and problem-free operation is knowledge of the basic safety information and safety regulations. Also be sure to observe all local rules and regulations.

2.2 Owner responsibilities

The owner is obligated to only allow persons who are familiar with basic work safety and accident prevention rules and who have been briefed on proper workplace handling to work at this workplace. The safety-conscious work of personnel must be verified at regular intervals.

2.2.1 Personnel responsibilities

All persons who are tasked with working at this workplace are obligated, before beginning with work, to observe the basic regulations covering work safety and accident prevention.

2.2.2 Personnel training

Only personnel that have been trained and briefed in advance may work at this workplace. Personnel responsibilities for installation, placement into service, operation, maintenance and repair must be clearly defined.

Personnel still to be trained may only work at this workplace under the supervision of someone who is trained and experienced.



WARNING

The device is designed using state-of-the-art technology and according to recognized safety standards.

Nonetheless, operating the device can entail the risk of life-threatening injury to the user, third parties or property.



WARNING

The workplace is only to be used

- for intended purposes
- if it is in proper and safe working condition.

2.3 Electrical hazards



DANGER

Only allow work to be carried out by electrical specialist. Regularly check the electrical equipment. Rectify loose connections immediately.

2.3.1 Basic safety measures (must always be observed!)

- Keep your work area in good condition.** A disorderly work area can result in an accident.
- Take environmental factors into account.** Do not expose the charger station to rain. Do not use the charger station in a humid or wet environment. Ensure that there is sufficient illumination. Do not use the charger station in the proximity of flammable liquids or gases.
- Keep children away.** Do not allow other persons to touch the device or cable; keep them away from your work area.
- Use the correct device.** Do not use the charger station for purposes and work for which it was not intended.
- Do not misuse the cable.** Do not pull the plug out of the power socket by the cable. Protect the cable against heat, oil and sharp edges.
- Maintain your device with care.** Keep your charger station clean in order to work better and more safely. Regularly inspect the cable and, in case of damage, have it replaced by a qualified expert. Keep the device dry and free of oil and grease.
- Pull out the main power plug,** when not in use and before maintenance.

- h) **Inspect your device for damage.** Before using the charger station, the protective equipment or damaged parts must be tested to ensure problem-free functionality according to their intended purpose. Check whether moving parts function properly and determine whether or not they jam, whether any parts are broken, whether all other parts are flawless, are correctly installed and whether all factors that could influence operation of the device are OK. Damaged protection equipment, switches and other parts should be properly repaired or replaced by a customer service center.
- i) **Protect yourself against electric shock.** Avoid any body contact with grounded parts, e.g. pipes, radiators, stoves, refrigerators.
- j) **Replacement parts.** For repair and maintenance, only original replacement parts obtained from the manufacturer may be used.



DANGER

Do not open batteries or the battery charger, and protect them against jolts, heat and fire. Do not toss used batteries in a fire or dispose of them in regular garbage.

- k) **Defective batteries.** Do not use the battery charger with any defective batteries and vice versa.
- l) **Symbols.** Observe the symbols marked on the power rating plate of the battery charger.
- m) **Dismantling.** Do not disassemble either the battery or the battery charger.



WARNING

Protect the battery charger against metal objects, as there is a risk of short circuiting. The ventilation slits on the battery charger must also be protected against metal and/or metal shavings.

2.3.2 Observing the line voltage



DANGER

Adhere to the correct line voltage. Using a higher voltage than is specified can lead to serious injuries of the operator and cause damage to the device itself. In case of doubt, do not connect the device and first verify the line voltage.

2.4 Structural modifications

No changes, extensions or modifications may be carried out on the device without the approval of the manufacturer. All modifications require written confirmation.

2.5 Cleaning and disposal of the device

Handle and dispose of the substances and materials utilized in a proper manner, especially when cleaning with solvents.

3 Start-up and use

NOTICE



Only use the charger station in dry rooms. All ventilation slits must be unobstructed. Place the device as far away as possible from exposure to heat and solar energy, as an ambient temperature of more than 35° C can lead to substantially longer charging times.

NOTICE



Prior to connecting the device, the specifications on the type plate concerning line voltage, frequency and current consumption must be observed. Once the main power cable has been inserted in the power socket, the charger station is operationally ready. Nothing else needs to be switched on.

3.1 Operation

LED left

Description



Shows, that the charger is connected to the power.



Charger defective. Don't charge other batteries on this charger because they could be damaged or defective after charging. Change the charger or let it repair by a professional. Don't open the casing by yourself because you could get an electrical shock.

LED right

Description



Battery is too hot or cold. Preferably charge the battery at room temperature.



Battery is damaged. Remove the battery and give it to the repair station or change it. A battery may only be repaired by professionals. Please don't open the casing by yourself because you could get an electrical shock.



Battery is in charge.



Battery is charged (full).

WARNING



When charging two batteries consecutively, it is recommended to allow the charger to cool down between charges. There is no OEM concern with the charger remaining plugged and a fully charged battery residing in the charger following full charge levels. If the battery is fully charged on the charger, no charging current flows; result, the charging process has stopped.

4 Technical data

Description	BST-BC-2830	BST-BC-2830-USA
Connection	220 - 240 V / 50 - 60 Hz	110 V / 50 - 60 Hz
Charging current	3 A	
Output	max. 28VDC	
Charging time	25 - 80 min	
Switch-off criteria	ΔU , temperature termination	

4.1 Dimensions

Description	BST-BC-2830 and BST-BC-2830-USA
Size (W × H × D)	85.5 × 106.8 × 152.5 mm
Weight	ca. 0.5 kg

4.2 Additional characteristics

- Quick charger for 18 V Li-Ion battery pack
- Battery defect detection
- Battery surge protection
- Microprocessor-controlled charging
Charging time depending on the capacity of the battery
- Automatic voltage detection

CE Declaration of conformity

We, the manufacturer, hereby declare that the named tool complies with the essential protection requirements of the listed EU directives regarding design and construction type.

The prerequisite for this is the intended use of the tool as well as compliance with the installation and commissioning instructions.

If the product or its accessories are modified without our consent, this declaration becomes invalid.

Tool description: Quick charger for charging HS-Technik 18 V Li-Ion batteries

Type designation: HST-PR-2830 & HST-PR-2830USA
BST-BC-2830 & BST-BC-2830-USA

Manufacturer: HS-Technik GmbH
Im Martelacker 12
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Directives: 2014/35/EU
2014/30/EU
2011/65/EG

Applied standards: EN 60335-2-29:2004+A2:2010
EN 60335-1:2012
EN 55014-1:2006+A1:2009+A2:2011
EN 55014-2:2015
EN 61000-3-2:2014
EN 61000-3-3:2013
EN 50581:2012

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January 2020



Florian Hanke
CEO

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