MANUAL

Single charger HST-PR-2830 & HST-PR-2830USA

for HS-Technik batteries HST-PR-18xx | HST-PR-14xx



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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 used to charge matching batteries as specified in this manual.

- 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 batteries:

- HST-PR-18xx & HST-PR-14xx
- TIOS-LIO-18xx

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 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

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.

Address of the manufacturer:



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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.



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.

- The workplace is only to be used:
- For intended purposes
- If it is in proper and safe working condition

2.3. Electrical hazards



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.
- User 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.
- 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.

- Protect yourself against electric shock Avoid any body contact with grounded parts, e.g. pipes, radiators, stoves, refrigerators.
- Replacement parts
 For repair and maintenance, only original replacement parts obtained from HS-Technik
 GmbH may be used.



EXPLOSION HAZARD!

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.

- Defective batteries
 Do not use the battery charger with any defective batteries and vice versa.
- Symbols Observe the symbols marked on the power rating plate of the battery charger.
- Dismantling

Do not disassemble either the battery or the battery charger.



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



CAUTION! 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 by HS-Technik GmbH. Immediately replace device parts that are not in flawless condition.

Only use original replacement parts.

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. Placement into service

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.
- 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

Green LED flashing (right LED) Battery is to hot or cold. Preferably charge the battery at room temperature.

Red LED flashing (right LED)

Battery is damaged. Remove the batterie 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.

Red LED on (right LED) Battery is in charge.

Green LED on (right LED) Battery is charged (full).

Red LED on (left LED) Shows, that the charger is connected to the power.

Red LED flashing (left LED)

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.



CAUTION! Care must always be taken to ensure the correct polarity +/-.

HS-Tech High - System		K GmbH Technik			
		CHARGER			
HST-PR-2830					
Voltage: 14,4V - 18V					
Type: Li-Ion					
Left LED:		Right LED:			
Charger is connected to the AC line and ready for operation		charging started defective fully charged			
Charger is defective		Battery is too hot or too cold			

CAUTION!

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_____

HST-PR-2830

Connection:	220 – 240 volts / 50-60 Hz
Charging current per box:	3,0 A
Output:	18 V
Discharge current:	30 mA
Charging time:	25-80 minutes
Switch-off criteria:	ΔU , temperature termination

HST-PR-2830USA

110V / 50-60 Hz
3,0 A
18 V
30 mA
25-80 minutes
ΔU, temperature termination

4.1. Dimensions

	HST-PR-2830 & HST-PR-2830USA
Size (W x H x D):	85,5 x 106,8 x 152,5 mm
Weight:	ca. 0.5 kg

4.2. Additional characteristics

- Quick charger for 18 V Li-Ion battery pack (HST-PR-18xx | HST-PR-14xx) (TIOS-LIO-18xx)
- Battery defect detection
- Battery surge protection
- Microprocessor-controlled charging Charging time depending on the capacity of the battery
- Automatic voltage detection

Notes

Declaration of EU conformity

We hereby declare that the devices stated below comply with the relevant EC Directives listed below with regard to the design and construction type. If there are made modifications without the approval of HS-Technik GmbH, the declaration will be invalid.

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Device description:

Quick charger for charging 18V Li-Ion batteries (HST-PR-18xx | HST-PR-14xx) (TIOS-LIO-18xx)

Model name:

HST-PR-2830 & HST-PR-2830USA

Applicable EU guidelines:

89 / 336 EEC – Electromagnetic Compatibility Directive 73 / 23 EEC – Low Voltage Directive EN60335, EN55014, EN55014-2:98 , EN61000-3-2 + A12:97+A1, A2:99

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