

## Automatic Lead Acid / Lithium Car Battery Charger HT1500

6 V / 12 V / 12,8 V (Lithium) Charging current 1,5 A

- Automatic charging with IU-curve
- Automatic trickle charge
- Short circuit, wrong polarity, high battery voltage, over temperature and safety time protection
- Precharge mode (to regenerate deep-discharged batteries)
- Cold temperature mode

### **Batterie Types:**

- 6-12V Lead-acid battery (Wet, Gel, MF und AGM) 4Ah - 50Ah
- 12,8V Lithium (4-cells LiFePO4) 3Ah-25Ah

Charging current: 1,5A

Input: 220-240V / 50Hz - 350mA

Protection class: IP65 (Dust- and waterproof)



# User Manual

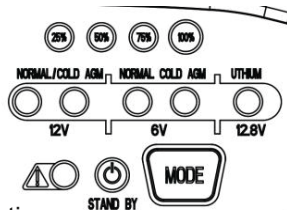
**Input:** 220-240V AC 50 Hz / 0.35A

**Output:** 12V DC 1.5A / 6V DC 1.5A / 12.8DC 1.5A

Charges:

1- 6/12V Lead Acid Flooded, Gel, Maintenance-Free,  
AGM Batteries 4Ah - 50Ah

2-12.8V Lithium Iron Phosphate (LiFePO4) 3Ah-25Ah



Thank you for purchasing our product. Read the instruction manual thoroughly before use and keep the manual for later reference.

### **Important safety Instructions**

1- Save these Instructions

**DANGER** - To reduce the risk of fire or electric shock, carefully follow these instructions.

2. This charger is intended for use with with 6/12V Lead Acid Flooded, Gel, Maintenance-Free, AGM Batteries 4Ah-50Ah and LiFePO4 2Ah – 15Ah lithium rechargeable batteries only. Attempting to charge other types of batteries may cause personal injury and damage to the charger.

3. Do not expose charger to rain, snow or moisture.
4. Operate charger only in well-ventilated areas. Batteries generate explosive gases during normal operation.
5. Wear eye protection when operating charger.
6. Never use an extension cord or any attachment not recommended by manufacturer, otherwise this may result in a risk of fire, electric shock or personal injury.
7. Do not leave charger unattended while in use.
8. To reduce risk of damage to electric plug and cord, pull by the plug rather than cord when disconnecting charger.
9. Do not attempt to charge damaged or frozen batteries.
10. Do not operate the charger if the cord or plug has been damaged or if the charger has been subjected to shock or damage. Take it to a qualified technician for repair.
11. Do not disassemble the charger. Incorrect reassembly may result in a risk of electric shock or fire.
12. Unplug the charger from power source before attempting any maintenance

or cleaning. Use lint-free cloth to clean the surface, do not immerse into water.

13. This equipment can be used by children of 8 years and older and by people with limited physical, sensory or mental capacities or those with no experience and knowledge if they are supervised or have received instruction in how to use the equipment safely and understand the dangers which result from such use. Children are not allowed to play with the equipment. Unless supervised, children are not allowed to clean the equipment and carry out user-level maintenance work.
14. **WARNING: RISK OF EXPLOSIVE GASES WORKING IN VICINITY OF A LEAD-ACID BATTERY IS DANGEROUS. BATTERIES GENERATE EXPLOSIVE GASES DURING NORMAL BATTERY OPERATION. FOR THIS REASON, IT IS OF UTMOST IMPORTANCE THAT YOU FOLLOW THE INSTRUCTIONS EACH TIME YOU USE THE CHARGER.**  
To reduce risk of battery explosion, follow these instructions and those published by the battery manufacturer and the manufacturer of any equipment you intend to use in the vicinity of the battery. Review cautionary marking on these products and on engine.
15. The battery charger is not intended for use in electric vehicles

## **SAFETY & PRECAUTIONS**

1. Someone should be within range of your voice or close enough to come to your aid if you have an accident.
2. Have plenty of fresh water and soap nearby in case battery acid contacts skin, clothing or eyes.
3. Wear complete eye protection and clothing protection. Avoid touching eyes while working near battery.
4. If battery acid contacts skin or clothing, wash immediately with soap and water. If acid enters eye, immediately flood eye with running cold water for at least 10 minutes and get medical attention immediately.
5. NEVER smoke or allow a spark or flame in vicinity of battery or engine.
6. Remove all jewelry and other metallic items from your hands and body when working with batteries. Metal may spark or create a short circuit resulting in electrical shock, fire or explosion which may result in injury, death or property damage.
7. Always use nonconductive or insulated tools when working with any battery.
8. Use charger for charging LEAD-ACID or LITHIUM IRON PHOSPHATE

batteries only. Do not attempt to charge any other type of battery. Charging other battery types may cause injury to persons and damage to property.

9. NEVER USE THE RECOVER MODE FOR A LITHIUM IRON PHOSPHATE BATTERY.

### **WARNING:**

Battery terminals, terminals and related accessories contain lead. Lead compounds are carcinogenic and damage the reproductive system.

**PLEASE WASH YOUR HANDS AFTER HANDLING BATTERIES**

### **Location:**

Locate the charger as far away from the battery as possible. Do not place the charger directly above the battery as gases from battery will corrode and damage charger. Do not allow battery acid to come in contact with charger. Do not operate the charger in a closed-in area or an area with restricted ventilation. Do not set battery on top of charger.

## CHARGING MODES

The HT1500 has three (3) modes. The Lithium charge mode requires the mode button to be pressed and held for three (3) seconds to enter the enhanced mode.

This “Enhanced” mode requires your full attention before selecting.

Do not operate the charger until you confirm the appropriate charge mode for your battery. Here is a brief description.

#	Voltage	Mode	Description	Output	Battery size
1	12V	Normal	For charging 12-volt Flooded, Gel, Maintenance-Free batteries.	14,5V 1,5A	4-50Ah Batteries
2		Cold/AGM	For charging 12-volt batteries in cold temperatures below 50 F(10C) or AGM batteries. When selected, the LED will illuminate.		
3	6V	Normal	For charging 6-volt Flooded, Gel, Maintenance-Free batteries. When selected, the LED will illuminate	7,3V 1,5A	
4		Cold/AGM	For charging 6-volt batteries in cold temperatures below 50 F(10C) or AGM batteries. When selected, the LED will illuminate	7,5V 1,5A	
5	12V	Lithium	<b>Press &amp; Hold Mode</b> For charging 12.8-volt lithium iron phosphate batteries. When selected, the LED will illuminate.	14,5V 1,5A	

## CONNECTING TO BATTERY

1. Set any charger switches to “off” position and remove AC cord from electric outlet before connecting or disconnecting DC output clamps or eyelets. Never allow clamps or eyelets to touch each other. The battery terminal not connected to the chassis has to be connected first. The other connection is to be made to the chassis, remote from the battery and fuel line. The battery charger is then to be connected to the supply mains; After charging, disconnect the battery charger from the supply mains. Then remove the chassis connection and then the battery connection.
2. Identify the correct polarity of the battery terminals. The positive battery terminal is typically marked with (POS, P, +). The negative terminal is typically marked with (NEG, N, -).
3. Position cords and cables to reduce risk of damage by hood, door or moving parts (including fan blades, belts, and pulleys) or other parts that could cause injury to persons.
4. Do not connect to carburetor, fuel lines, or sheet-metal body parts.



5. Determine which post of battery is grounded (connected) to the chassis. If negative post is grounded to the chassis (as in most vehicles) see (6). If positive post is grounded to the chassis, see (7).
6. For Negative-grounded vehicle, connect POSITIVE (RED) clamp or eyelet connector from battery charger to POSITIVE (POS, P, +) post of battery. Connect NEGATIVE (BLACK) clamp or eyelet connector from battery charger to the NEGATIVE (NEG, N, -) post of battery.
7. For Positive grounded vehicle, connect NEGATIVE (BLACK) clamp or eyelet connector from battery charger to NEGATIVE (NEG, N, -) post of battery. Connect POSITIVE (RED) clamp or eyelet connector from battery charger to the POSITIVE (POS, P, +) post of battery.
8. When disconnecting charger, turn switches to off, disconnect AC cord, remove connectors in reverse sequence from connecting procedure.

## Charging time table

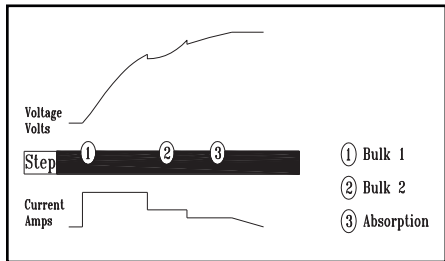
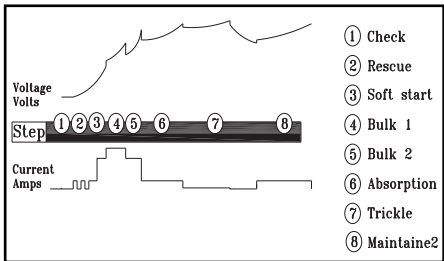
<b>Nominal battery voltage</b>	<b>Final charge voltage</b>	<b>Charging current</b>	<b>Charging time / 4Ah</b>
6 V	7,3 V	1,5A	3,15h
12 V	14,5 V	1,5A	3,15h
12,8 V	14,5 V	1,5A	3,15h

### PREPARING TO CHARGE

1. If necessary to remove battery from vehicle to charge, always remove grounded terminal from battery first. Make sure all accessories in the vehicle are off, so as not to cause an arc.

2. Be sure area around battery is well ventilated while battery is being charged.
3. Clean battery terminals. Be careful to keep corrosion from coming in contact with eyes.
4. Study all battery manufacturer's specific precautions while charging and recommended rates of charge.
5. Determine voltage of battery by referring to car owner's manual and make sure that the output voltage selector switch is set at correct voltage. If charger has adjustable charge rate, charge battery initially at lowest rate.

### Charging steps (charging Voltage & charging current):



The battery charger must be connected to the battery according to the instructions above.

## STARTING THE CHARGING PROCESS:

1. Once you have established that the battery clamps or eyelets have been correctly connected, you can start the charging process. To do so, insert the charger plug into the AC socket.
2. The charger will start in Standby mode, indicated by the **STANDBY LED**.
3. Press the mode button to select the appropriate charge mode (press and hold for three seconds to enter an enhanced charge mode) for the voltage and chemistry of your battery. The selected charge mode LED will illuminate.







**STANDBY LED**

**MODE**

**3** PRESS & HOLD  
**SECONDS**





## STATE OF CHARGE INDICATORS

The state-of-charge (SOC) LED display has four (4) SOC indicators.

	<b>LED</b>	<b>EXPLANATION</b>
	25% Red LED	The LED will flash when the battery is less than 25% charged. When the battery is 25% charged, the LED will be solid.
	50% Orange LED	The LED will flash when the battery is less than 50% charged. When the battery is 50% charged, the LED will be solid.
	75% Yellow LED	The LED will flash when the battery is less than 75% charged. When the battery is 75% charged, the LED will be solid.
	100% Green LED	The LED will flash when the battery is less than 100% charged. When the battery is 100% charged, the LED will be solid.

# TROUBLESHOOTING

Error conditions are indicated in the  LED display.

<b>ERROR</b>	<b>REASON/SOLUTION</b>	
 Solid Red LED	Standard Charging Mode	The battery is not accepting a charge. Change charge mode to Recovery Mode.
	Recovery Mode	The battery cannot be recovered.
 Flashing Yellow LED	Battery capacity may be too high for the selected mode. Verify the battery capacity and charge mode. If battery capacity is in range, change charge mode to Recovery Mode.	
 Solid Yellow LED	Battery voltage is too high or too low for the selected mode. Verify the battery voltage and charge mode.	
 Flashing Red LED	Reverse polarity. Reverse the battery connections.	

### **Declaration of Conformity:**

We hereby declare that it complies with Directive 2014/30 / EU, 2014/35 / EU and 2011/65 / EU (RoHS II). The full text of the EU Declaration of Conformity is available at the following internet address:

<http://www.heitech-promotion.de/zertifikate>

### **Limited 3 Year Warranty:**

Warranty Disclaimer Heitech Promotion GmbH assumes no liability and provides no warranty for damage resulting from improper installation.

This product is warranted to be free of defects in material and workmanship for 3 years from date of purchase, dated receipt required. Defective product will be replaced or substituted with a product of equal value. This is your sole remedy in lieu of all other remedies, including consequential damages.



After the end of its service life, please take the unit for proper disposal. Do not throw in the household waste; take the unit to a collecting point for electrical and electronic equipment.

Packaging materials are raw materials and can be recycled. Your responsible administration will be glad to provide details of the addresses and opening hours of collection points.

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