



***XHD Lithium
Battery Charger
18V - 12 Volt Car***

TSC35



OPERATORS MANUAL



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Note

This manual is for your reference only. Due to the continuous improvement of the XHD Lithium products, changes may be made at any time without obligation or notice.

Thank You

For the purchase of this XHD Lithium product. We try our hardest to supply customers like you with the best quality products available, at the best price possible. We cant wait to continue working together in the future.



SPECIFICATIONS

Input	12 Volts
Power	65 Watts
Output	20.5 Volts
Charging Time	3Ah: 110 Min
	5Ah: 185 Min
Charging Current	2200 mA
Dimensions	140 x 950 x 650mm
Weight	0.27 kg
Cable Length	1.8 metre
Protection Class	Class III

PRODUCT IDENTIFICATION



- 1 Red LED Indicator
- 2 Green LED Indicator
- 3 Battery Charging Cradle
- 4 Positive Pole with Cap for Changing Fuses
- 5 Power Cord
- 6 12V Cigarette Lighter Plug

SAFETY GUIDELINES

 **WARNING**

READ ALL SAFETY WARNINGS & INSTRUCTIONS. Failure to follow instructions and warnings could lead to serious injury, electric shock, or fire.

Work Area Safety

- **Ensure that your work area is kept clean and well lit.** Lack of visibility and clutter greatly increase the risk of accident when using tools.
- **Keep bystanders, pets, and children clear when operating this power tool or machine.** They can cause distraction or risk injury to themselves.
- **Ensure you are not operating the power tool or machinery in the presence of dust, liquids, flammable gases, or anything that can create an explosive atmosphere.** Power tools and machinery can create sparks which can lead to ignition and fire hazards in working environments.

Personal Safety

- **Always wear personal protective equipment (PPE).** Eye protection, ear protection, dust masks, and other protective equipment will help to reduce the risk of personal injury or long-term illnesses.
- **Dress appropriately. DO NOT wear loose clothing that can get caught in moving parts.** Keep hair, loose clothing, jewellery, and anything else that could be of risk, away

from moving parts in the machine, or they could become caught therein.

- **Always remain alert and DO NOT operate power tools or machinery under the influence of any substances such as alcohol or drugs, including prescription medications.** Lack of focus could lead to injury or accidents while operating these power tools and machinery.
- **Always ensure proper footing and balance.** Overreaching can lead to slipping and falling which can result in injury or accident.
- **Ensure the power switch is in the OFF position before connecting any battery, or power source to the power tool or machinery.** This can cause injury as tools and machinery can suddenly fire incidentally when live, causing accidents.
- **Use all provided dust collection and extraction attachments, if included.** This equipment, along with the use of PPE dust masks, can help keep you safe from dust inhalation, and keep your work site clear from hazards.
- **Ensure loose parts such as wrenches or adjusting keys are removed before starting the power tool or machinery.**



SAFETY GUIDELINES

Power Tool & Machinery Use & Care

- **Use the correct tool for the job.** Forcing a tool to do a job it was not designed for increases the risk of accident or injury.
- **Disconnect tools and machinery from power, or remove batteries before doing any maintenance or adjustments, or before storing the tools and machinery.** This reduces or removes the risk of a power connection that causes the tool or machinery to accidentally fire, which can help prevent injury or accident.
- **Check the general condition of the power tool for damage or any problems that could affect the way the tool or machine works.** An unrepaired tool or machine can lead to accident and injury. Only have your tool or machine repaired with genuine parts from your local distributor
- **Only use the power tool and machinery with genuine parts or accessories that are designed to be used with this power tool and machinery.** Failure to do so could result in accident or injury, or damage your tool or machinery.
- **Store your tool or machinery out of reach of children, and away from untrained personnel when not in use.** Use by somebody untrained, or a child, could lead to accident or serious injury.

Service

- **Have your tools and machinery serviced by your local distributor with genuine XHD Lithium replacement parts.** This will ensure that the safety of the power tool or machine is maintained.



WARNING

The warnings and precautions discussed in this manual cannot cover all possible conditions and situations that may occur. It must be understood by the operator that common sense and caution are factors which cannot be built into this product, but must be supplied by the operator.

Always Use Common Sense

- It is not possible to cover every conceivable situation you can face. Always exercise care and use your common sense. If you get into a situation where you feel unsafe, stop and seek expert advice. Contact your dealer, service agent, or an experienced user. Do not attempt any task you feel unsure of!
- **Do not let familiarity gained from the frequent use of tools allow you to become complacent and ignore tool safety principles.** A careless action can cause severe injury within a fraction of a second.



SAFETY GUIDELINES

Battery Tool Use & Care

- Prevent unintentional starting. Ensure the switch is in the OFF position before connecting to the battery pack, picking up, or carrying the machine. Carrying the machine with your finger on the switch or energising a machine that has the switch ON invites accidents.
- Disconnect the battery pack from the machine before making any adjustments, changing accessories, or storing the machine. Such preventive safety measures reduce the risk of starting the machine accidentally.
- Recharge the battery only with the charger specified by the manufacturer. A charger that is suitable for one type of battery pack may create a risk of fire when used with another battery pack.
- Use machines only with specifically designated battery packs. Use of any other battery packs may create a risk of injury and fire.
- When the battery pack is not in use, keep it away from other metal objects, like paper clips, coins, keys, nails, screws, or small metal objects, that can make a connection from one terminal to another. Shorting the battery terminals together may cause burns or a fire.
- Under abusive conditions, liquid may be ejected from the battery; avoid contact. If contact accidentally occurs, flush the area with water. If liquid contacts eyes, seek medical help. Liquid ejected from the battery may be acidic and may cause irritation or burns.
- Do not use a battery pack or machine that is damaged or modified. Damaged or modi-

fied batteries may exhibit unpredictable behaviour resulting in fire, explosion, or risk of injury.

- Do not expose a battery pack or machine to fire or excessive temperature. Exposure to fire or temperature above 130°C may cause explosion.
- Follow all charging instructions and do not charge the battery pack or machine outside of the temperature range specified in the instructions.
- Charging the battery improperly, or at temperatures outside of the specified range may damage the battery and increase the risk of fire.
- Have servicing performed by a local XHD distributor repair person using only identical replacement parts. This will ensure that the safety of the product is maintained.
- Do not modify or attempt to repair the machine or the battery pack except as indicated in the instructions for use and care.

Battery Long Life Tips

- Charge the battery cartridge before it is completely discharged. Always stop tool operation and charge the battery cartridge when you notice less tool power.
- Never recharge a fully charged battery cartridge. Overcharging shortens the battery service life.
- Charge the battery cartridge with room temperature at 10°C – 40°C. Allow a hot battery cartridge to cool before charging it.
- Charge the battery cartridge once in every six months if you do not use it for extended periods at a time.

SAFETY GUIDELINES

Charger Specific Safety

- This product is only intended to be used indoors in a dry, well ventilated area.
- Never attempt to charge non-rechargeable batteries.
- Never attempt to charge batteries not intended to be used with this charger.
- If the product's power cord is damaged, it must be replaced before the next use to prevent the risk of electric shock or fire. Contact your local XHD distributor for replacement parts or advise.
- This product can be used by persons 8 years and older, or other untrained persons or impaired persons, if they are supervised, or receive adequate instructions concerning the safe use of this product and understand the risks involved with its use.
- Do not allow children to clean or maintain this charger without supervision.
- Unplug the power cord from the outlet before inserting or removing any batteries.
- Never leave the product unattended for risk of fire or electric shock.
- Protect the charger from moisture. Damp or dirty conditions can affect the internal components and cause a hazard.
- Never immerse the charger in water or any liquids, or use the charger where there is a risk of it becoming wet or splashed upon.
- Connect the charger to an easily accessible power point near to the battery charger.
- When battery pack is not in use, make sure the battery pack cannot be shorted accidentally. Keep the battery clean at all times. Keep it away from other metal objects, like paper clips, coins, keys, nails, screws or other small metal objects that can make a connection from one terminal to another. Shorting the battery terminals together may cause burns or a fire.
- Never pull out the plug by yanking on the power cord, or touch the power cord with wet hands. Keep the power cord away from hot surfaces/objects, oil, sharp edges, and moving objects.
- Check the product for damage before every use, including the power cord.
- Always take care when using and handling the charger.
- Avoid dropping the product, and do not subject it to excessive knocks and blows for risk of material damage and personal injury.
- Never use a damaged battery charger or battery.
- Do not insert any foreign object, or body parts into any of the openings on this charger.
- Do not expose the charger to rain or moisture for risk of corrosion.
- Do not expose the product to excess dust and debris for risk of blockage and overheating.

Important

- **Check the condition of the charger and battery before each use. Do not attempt to charge if the battery or charger are damaged.**
- **Do not pull on the power cord to pull out the plug from the outlet. Grip the plug properly to avoid damaging the cord.**
- **The charger gets warm when charging, Allow it to cool for 15 minutes before charging again.**

OPERATION

Unpacking Your Charger

- Carefully unpack and inspect your charger. Familiarise yourself with all its features and functions.
- Ensure that all parts of the charger are present and in good condition. If any parts are missing or damaged, have such parts replaced before attempting to use this charger.

Setting up the Battery Charger

- If fitted, remove any battery from the battery charger.
- Insert the battery charger's cigarette lighter plug into a suitable 12 VDC socket.

NOTE: The Red LED (1) on the battery charger will illuminate to indicate that the battery charger is ready to charge the battery.

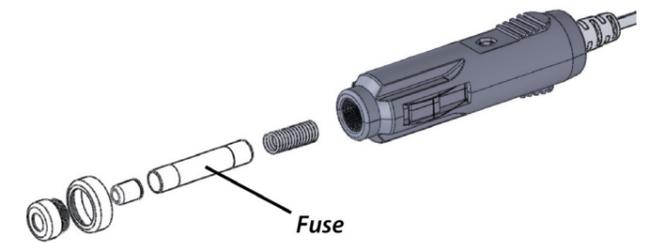
WARNING

Only use this charger to charge compatible batteries that are specifically designed for this tool.

The charger is designed for indoor use only, and must not be used in damp or wet conditions.

Changing the Fuse

- Unscrew the cap (4) from the cigarette lighter plug and replace the fuse 6S 10 A 250V slow with an intact one of the same type and dimensions.



Charging the Battery

NOTE: The normal charging can be gathered from the Specifications (PG.3). However, If the battery has been left in a discharged state for some time, it may take slightly longer to charge the battery.

1. Slide a fully or partially discharged battery onto the battery charger.
2. Once charging commences, the Red LED (1) will illuminate and the Green LED will flash.
3. When the battery is fully charged, the Green LED (2) will illuminate.

- If the Battery is defective the Red LED flashes.

NOTE: Ensure the battery and battery charger are lined up correctly. If the Battery does not slide onto the battery charger easily, don't force it. Instead, remove the battery; check the top of battery and the battery charger slot are clean and undamaged and that the contacts are not bent.



OPERATION

WARNING

Failure to follow the correct procedure when charging batteries will result in permanent damage.

Battery Charge Level

- The battery has a built-in charge indicator.
- Pressing on the (Test) button to the right will indicate the charge level.
- The right LED indicates a high charge level and the left a low charge level that will mean the battery pack will require charging soon.

IMPORTANT

When a low charge level is indicated be aware the tool may stop operating while using the tool. In some instances this may be dangerous. It is recommended to always ensure the battery pack has a good charge level.

Notes about Battery Charging

- The battery should be charged at ambient temperatures between 10°C and 40°C (ideally around 20°C).
- After charging, allow 15 minutes for the battery to cool before use.
- Ensure that the charger is disconnected from the mains supply after use, and is stored correctly.

- Do not leave batteries on charge for extended periods and never store batteries on charge.
- The battery charger monitors battery temperature and voltage while charging. Remove the battery once charging has been completed to maximise charge cycles of the battery and not waste power.
- Batteries can become faulty over time, individual cells in the battery can fail and the battery could short. The charger will not charge faulty batteries. Use another battery, if possible, to check correct functionality of the charger and purchase a replacement battery if a faulty battery is indicated.
- Do not store Lithium-Ion battery packs in a discharged state long term. This can damage the Lithium-Ion cells. For long-term storage, store batteries in a high charge state disconnected from the power tool.
- The capacity of batteries will reduce over time. After 100 charge cycles, the battery's operation time and the maximum torque performance of the tool will slightly reduce. This decline will continue until the battery has minimal capacity after 500 charge cycles. This is normal and not a fault with the battery pack.



MAINTENANCE

- Before cleaning or performing any maintenance, you must ensure the tool is switched off and disconnected from the power supply.
- Ventilation openings and switch levers must be kept clean. DO NOT attempt to clean by inserting pointed objects through openings.
- Do not use harsh chemicals or solvents when cleaning this tool.
- If you discover any damaged or broken parts, consult your local XHD distributor for replacements and advise.
- The battery can be recharged up to 500 times if treated carefully. However, over time the battery's performance can deteriorate.

WARNING

Always be sure that the tool is switched off and the battery removed before attempting to perform any inspection or maintenance.

Battery Disposal

1. Run the tool until the battery is completely discharged.
2. Remove the battery from the tool.
3. Wrap heavy insulating tape around the battery terminals or enclose in a seal able plastic bag to prevent possible shorting.
4. Dispose of the battery through your local waste removal authority.

Environment & Disposal

- Packaging materials are raw materials and can be re-used. Separate the different packaging materials and take them to the appropriate waste disposal facility. More information can be obtained from your local authorities.
- Old tools do not belong in your household garbage! Dispose of old machines and batteries appropriately, we are all responsible for the environment.

TROUBLESHOOTING

FAULT	POSSIBLE CAUSE	SUGGESTED SOLUTION
Red and green LEDs do not illuminate to indicate the Battery is charging correctly.	Battery not correctly connected to Charger Charger not powered	Clean Battery Socket of Charger and Battery Contacts and fully slide on to Charger so it clicks in a locked Position. Recheck Mains Connection.
Battery Pack has low capacity.	Battery not being fully charged Battery Pack has been charged over 100 times and Capacity has started to reduce	Do not remove Battery until a full Charge is indicated. This is normal for battery packs. Contact your nearest XHD dealer to purchase a replacement battery pack.