

**UNIMAC®**



# **Battery Powered Impact Wrench**

## **User Manual**

[Revision 3.0 July 2018]

---

READ THIS MANUAL CAREFULLY BEFORE USE – FAILURE TO DO SO MAY RESULT IN INJURY, PROPERTY DAMAGE AND MAY VOID WARRANTY. • KEEP THIS MANUAL FOR FUTURE REFERENCE. • Products covered by this manual may vary in appearance, assembly, inclusions, specifications, description and packaging.

---

# Table of Contents

<b>Safety.....</b>	<b>1</b>
Work Area .....	1
Electrical Safety.....	1
Personal Safety.....	1
<b>Included Items .....</b>	<b>2</b>
Battery Pack .....	2
Charger .....	2
<b>Operation .....</b>	<b>3</b>
<b>Maintenance .....</b>	<b>3</b>
<b>Technical Specifications.....</b>	<b>4</b>

# Safety

The machine should be stop after long time use if overheating until cooled to proper temperature .In order not to damage the machine

- The machine should be used in the environment where the temperature is between 5-40°C. So do not put it in outdoor or keep in the car.
- The battery can be restored by short charge if it was protected by an over current protection.
- The machine should be stopped after long time use if overheating until cooled to proper temperature, in order not to damage the machine.

## Work Area

- Keep your work area clean and well lit.
- Cluttered benches and dark area invite accidents.
- Do not operate power tools in explosive atmospheres such as in the presence of flammable liquids, gases, or dust. Power tools create sparks which may ignite the dust or ruins.
- Keep by standers, children and visitors away while operating a power tools. Distractions can cause you to lose control.

## Electrical Safety

- Don't expose power tools to rain or wet conditions. Water entering a power tools will increase the risk of electric shock.
- Do not abuse the cord. Never use the cord to carry the tools or pull the plug from an outlet. Keep cord away from heat, oil, sharp edges or moving parts. Replace damaged cords immediately. Damaged cords increase the risk of electric shock.
- When operating a power tools outside, use an outdoor extension cord marked "WA" or "W". These cords are rated for outdoor use and reduce the risk of electric shock.

## Personal Safety

- Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use tools while tired or under the influence of drugs, alcohol, or medication. A moment of inattention while operating power can result in serious personal injury.
- Dress properly. Do not wear loose clothing or jewellery. Keep your hair, clothing and gloves away from moving parts. Loose clothes like jewellery or long hair can be caught in moving parts.
- Avoid accidental starting. Be sure switch is off before plugging in. Carrying tools with your finger on the switch or plugging in tools that have the switch or plugging in tools that have the switch on invites accidents.
- Remove adjusting keys or switches before turning the tool on. A switch or a key that is left attached to the tool or rotating part may result in personal injury. Please check the sockets carefully be using.
- Use safety equipment. Always wear eye protection. Dust mask, non-slip safety shoes, hard hat, or hearing protection must be used for appropriate conditions.

# Included Items

<b>Li-ion impact wrench</b>	1 pc
<b>Charger with cable (1.8m)</b>	1 pc
<b>Battery</b>	1 pc
<b>Socket</b>	4pcs: 17mm, 19mm, 21mm & 22mm
<b>Cigarette lighter power pack</b>	1 pc

## Battery Pack

In order to ensure the safety during transportation, the battery should be 40% - 50% charged.

Function:

1. Short circuit protection can be restored
2. Single battery monitoring and protection
3. Over charge protection voltage 12.6V, 20A DC
4. Over-discharge protection voltage is 8.7V DC. The machine will stop when the voltage of battery lower than 8.7v.
5. High temperature protection for charging is 50°C, the temperature of charging environment should be lower than 50°C
6. High temperature protection for discharge is 70°C, the machine will stop when the temperature of workplace higher than 70°C



## Charger

80 minutes charging at least and 120 minutes for full charge.

<b>Input Voltage</b>	100 – 240 V AC 50 – 60 HZ
<b>Output</b>	12.6 V DC 30 W
<b>Current</b>	1500 MA



Function:

1. DC output over current protection
2. DC output short circuit protection
3. LED indication of charging process  
Light in red is for charging  
Light in green is for charge complete

# Operation

This impact wrench features a centrifugal clutch which engages when there's enough torque. If you feel that there's no force at all to turn a bolt, pull the trigger in more.

Due to the fact this impact wrench uses a 12v battery, there is insufficient power to use a clutch-less system. Once there is enough speed, the clutch will engage.

Also note, do not over use the impact wrench. Release off the trigger when the bolt is sufficiently tight.

The size of the bolt will also determine the torque. Refer to table below:

Size of Bolt	Torque (N.M.)
M10-M12	40-80
M12-M16	100-200
M14-M16	120-200
M18-M24	200-350

# Maintenance

Tool service must be performed only by qualified repair personnel. Service or maintenance performed by unqualified personnel could result in a risk of injury.

When servicing a tool, use only identical replacement parts. Follow instructions in the maintenance section of this manual. Use of unauthorized parts or failure to follow maintenance instructions may create a risk of electric shock or injury.

**Warning:** hold tools by insulated gripping surfaces when performing an operation where the cutting tools may contact hidden wiring or as own cord. Contact with a "live" wire will make exposed metal parts or the tool "live" and shock the operator. Be sure to wear safety goggles when operating this device.

- Use clamps or other method to secure and support the workplace to a stable platform. Holding the work by hand or against your body is unstable and may lead to loss of control.
- Do not force tool. Use the correct tool for your application. The correct tools will do the job better and safer at the rate for which it is designed.
- Do not use tool if switch does not turn it on or off. Any tool that cannot be controlled with the switch is dangerous and must be repaired.
- Disconnect the plug from the power source before making any adjustments, changing accessories, or storing the tool. Such preventive safety measures reduce the risk of starting the tool accidentally.
- Store idle tools out of reach of children and other untrained persons. Tools are dangerous in the hands of untrained users.
- Maintain tools with care. Keep cutting tools sharp and clean. Properly maintained tools with sharp cutting edges are less likely to bind and are easier to control.
- Check for misalignment or binding of moving parts, breakage of parts, and any other condition that may affect the tools operation. If damaged, have the tool serviced before using. Many accidents are caused by poorly maintained tools.
- Use only accessories recommended by the manufacturer for your model. Accessories that are suitable for one tools, may become hazards when used with another tool.

# Technical Specifications

<b>Power Supply</b>	12V DC
<b>Speed</b>	5500r/min
<b>Protection Class</b>	II
<b>Spindle Size</b>	1/2"
<b>Battery Type</b>	Lithium-Ion
<b>Charging Time</b>	80mins
<b>Battery Capacity</b>	2000Mah
<b>Weight (with battery)</b>	1.4kg



**Some experts believe that the incorrect or prolonged use of almost any product may cause serious injury or death. To help reduce your risk of serious injury or death, refer to the information below. For more information, see [www.datastreamserver.com/safety](http://www.datastreamserver.com/safety)**

- Consult all documentation, packaging and product labelling before use. Note that some products feature documentation available online. It is recommended to print and retain the documentation.
- Before each use, check the product for loose/broken/damaged/missing parts, wear or leaks (if applicable). Never use a product with loose/broken/damaged/missing parts, wear or leaks.
- Products must be inspected and serviced (if applicable) by a qualified technician every 6 months. This is based on average residential use by persons of average size and strength, and on a property of average metropolitan size. Use beyond these recommendations may require more frequent inspections/servicing.
- Ensure that all users of the product have completed a suitable industry recognised training course before being allowed access to the product.
- The product has been supplied by a general merchandise retailer that may not be familiar with your specific application or description of application. Be sure to attain third-party approval from a qualified specialist for your application before use, regardless of any assurances from the retailer or its representatives.
- This product is not intended for use where fail-safe operation is required. As with any product (for example, automobile, computer, toaster), there is the possibility of technical issues that may require the repair or replacement of parts, or the product itself. If the possibility of such failure and the associated time it may take to rectify could in any way inconvenience the user, business or employee, or financially affect the user, business or employee, then the product is not suitable for your requirements. This product is not intended for use where incorrect operation or a failure of any kind, including but not limited to, a condition requiring product return, replacement, parts replacement or service by a technician may cause financial loss, loss of employee time or an inconvenience requiring compensation.
- If this product has been purchased in error when considering the information presented here, contact the retailer directly for details of their returns policy, if required.

 **edisons®**  
.com.au

©2018 Unimac. All rights reserved. No part of this document, including descriptive content, concepts, ideas, diagrams or images may be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopying, scanning or recording, or any information storage and retrieval system, without express permission or consent from the publisher.