



Operation and Maintenance Manual

18V Lithium-Ion Battery Charger **Models EC181BQC, EC182EQC, and EC182AUSQC**

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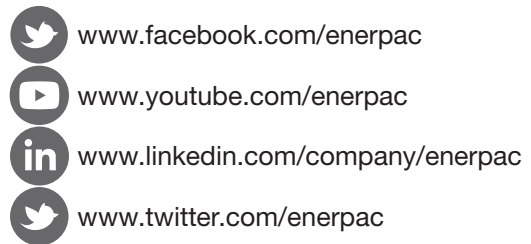
Language: English EN



To reduce the risk of injury, user must read and understand this document before use.

ABOUT US

Enerpac is a global market leader in high pressure hydraulic tools, controlled force products, portable machining, on- site services and solutions for precise positioning of heavy loads. As a leading innovator with over a 100 year legacy, Enerpac has helped move and maintain some of the largest structures on earth. When safety and precision matters, elite professionals in industries such as aerospace, infrastructure, manufacturing, mining, oil & gas and power generation rely on Enerpac for quality tools, services and solutions. For additional information, visit www.enerpac.com.

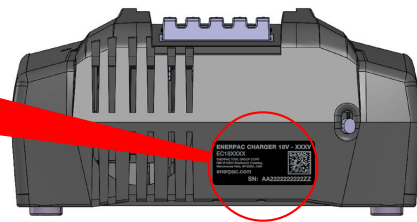
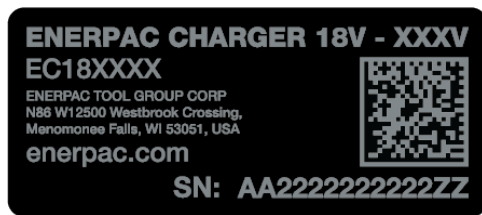


WARRANTY

Refer to the Enerpac Global Warranty document for terms and conditions of the product warranty. Such warranty information can be found at www.enerpac.com.

NAMEPLATE

Refer to the battery nameplate for the product model number, serial number and other applicable information. Use the serial number to lookup additional information on individual tools including the date of manufacture on enerpac.com or the Enerpac Connect mobile app.



Note: A typical charger nameplate is shown at left. Nameplate data may vary and is subject to change without notice.

AVAILABLE LANGUAGES

An electronic copy of this document is available online in multiple languages:

- [CS] Čeština - Další jazyky naleznete na adrese www.enerpac.com.
- [DE] Deutsch - Weitere Sprachen finden Sie unter www.enerpac.com.
- [ES] Español - Para otros idiomas visite www.enerpac.com.
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1.0 SAFETY

Read all instructions carefully. Follow all recommended safety precautions to avoid personal injury as well as damage to the product and / or damage to other property. Enerpac cannot be responsible for any damage or injury from unsafe use, lack of maintenance, or incorrect operation. Do not remove warning labels, tags, or decals. In the event that any questions or concerns arise, contact Enerpac or a local Enerpac distributor for clarification.

Save these instructions for future use.

This manual follows a system of safety alert symbols, signals, words, and safety messages to warn the user of specific hazards. Failure to comply with these warnings could result in death or serious personal injury, as well as damage to the equipment or other property.



The Safety Alert Symbol appears throughout this manual. It is used to alert you to potential physical injury hazards. Pay close attention to Safety Alert Symbols and obey all safety messages that follow this symbol to avoid the possibility of death or serious injury.

Safety Alert Symbols are used in conjunction with certain Signal Words that call attention to safety messages or property damage messages and designate a degree or level of hazard seriousness. The Signal Words used in this manual are WARNING, CAUTION and NOTICE.

WARNING Indicates a hazardous situation that, if not avoided, could result in death or serious personal injury.

CAUTION Indicates a hazardous situation that, if not avoided, could result in minor or moderate personal injury.

NOTICE Indicates information considered important, but not hazard related (e.g. messages related to property damage). Please note that the Safety Alert Symbol will not be used with the signal word.

1.1 Lithium-Ion Battery Charger Safety Precautions

WARNING

Read this user manual carefully before using the battery charger. Failure to follow any of the instructions or warnings in this document could result in electrical shock, serious injury or death. In addition the battery and/or charger could become damaged, potentially rendering these items inoperable.

To avoid serious injury, risk of fire, explosion and danger of electric shock or electrocution:

- Carefully follow the instructions in this operating manual.
- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance.
- If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.
- Do not use the charger for any other purpose than what is presented in this manual.
- Confirm proper input voltage prior to connecting charger to AC power source.
- Charge only compatible Enerpac 18V batteries with the charger. Other brands or types of batteries may burst, possibly causing personal injury and damage and/or risk of electric shock.
- Do not charge a fully charged battery.
- Do not cover the ventilation slots on the top of the charger. Keep the slots clear of dirt and debris.
- Do not place the charger on a soft surface, i.e. blanket, pillow, etc.
- Do not touch the uninsulated portion of output connector or uninsulated battery terminal.
- Do not allow small metal items or material such as steel wool, aluminium foil, or other foreign particles into the charger cavity.
- Always disconnect charger power cord from electrical outlet before removing debris or objects from the charger cavity and electrical contacts.

- Do not allow water or other liquids on or inside the charger.
- Do not use the charger in the rain or in other moist or wet environments. Do not immerse the tool, battery or charger in water or other liquid.
- Do not wear any metallic items such as watches, bracelets, etc. while inserting the battery into or removing the battery from the charger.
- Disconnect charger power cord from electrical outlet before cleaning the charger.
- Keep battery and charger away from unauthorized users.
- Do not attempt to disassemble, repair, adjust or modify the charger. It contains no user-serviceable or replaceable components. Take the charger to an Enerpac authorized service center if diagnosis or servicing is required.
- Immediately discontinue use of the charger if it emits an unusual smell, feels excessively hot, changes color, changes shape, or appears abnormal in any other way.
- Chargers should be only operated between 32°F and 103°F (0 - 40°C).
- Batteries should only be charged when battery temp is between 32°F and 120°F (0 - 50°C).
- Do not throw battery packs in a fire or immerse in water.
- The charger is not suitable for charging non-rechargeable batteries.
- To reduce the risk of electric shock: Disconnect power to the receptacle before installing or removing the unit.

1.1.1 First Aid Instructions:

⚠ WARNING Failure to follow first aid instructions may result in death or serious personal injury

- If battery liquid comes in contact with skin, wash immediately with soap and water, then neutralize with lemon juice or vinegar.
- If battery liquid gets in your eyes, flush with clean water for a minimum of 10 minutes, then seek immediate medical attention.
- If battery liquid is swallowed, seek immediate medical attention.

2.0 COMPLIANCE

2.1 Compliance Statements

18V Lithium-ion battery charger
Models EC181BQC, EC182EQC, and EC182AUSQC



Enerpac declares that the models EC181BQC, EC182EQC, and EC182AUSQC battery chargers have been tested and conform to applicable standards and are approved to carry the CE, RCM, CSA and UKCA certification marks.

NOTICE For all shipments, a copy of the product EU Declaration of Conformity is enclosed with each shipment. A copy of the UK Self Declaration of Conformity is also enclosed.

3.0 SYMBOLS & DEFINITIONS

The following symbols appear in this manual and/or on the product labelling.

Symbol	Definition
	Risk of electric shock. High voltage.
	Device shall not be exposed to high heat, fire/flame, or any heat source.
	Read instruction manual. Save instructions for future use.
	Only for use in indoor rooms.
	Do not dispose of device in trash.
	Current is alternating current (AC). Main/input power is AC
	Current is direct current (DC). Charger converts alternating current (AC) to (DC)
	Device is double insulated. Does not require earth ground.
	Device is fused.

4.0 PRODUCT DATA

4.1 Battery Specifications

Battery Model Number	Power Output			Weight		Approximate Charging Time
	Volts DC	Ah	Wh	lb	kg	Minutes
EB18V5*	18	5.5	99	2.16	0.98	41
EB18V8**	18	8.0	144	2.16	0.98	60

Notes:

- CAS batteries can be used with CAS devices.

*EB18V5 - ENERPAC Battery, 18V, 5.5Ah,LiHD CAS.

**EB18V8 - ENERPAC Battery, 18V, 8.0Ah,LiHD CAS.

4.2 Battery Charger Model Information

Region/Country	Model Numbers
North America 115V	EC181BQC*
Europe 230V	EC182EQC**
Australia 230V	EC182AUSQC***

Notes:

- Charger must be purchased separately if not included in the shipment with the battery or tool. User must select the correct voltage based on region of use.
- North America, Europe and Australia: Charger includes battery charger and the AC power cord for use in the selected region. Power cord is permanent.
- CAS chargers can operate with Enerpac CAS batteries and all other CAS batteries.

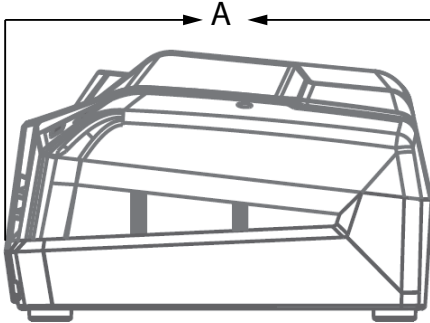
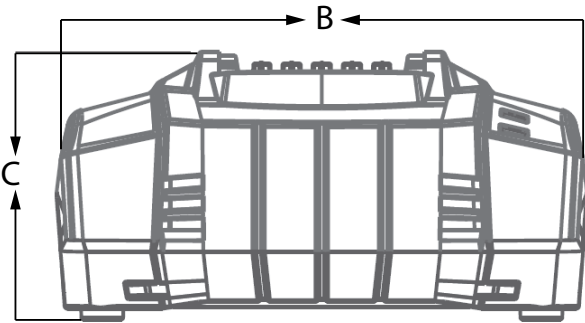
*EC181BQC - ENERPAC Quick Charger 18V - 120VAC Plug.

**EC182EQC - ENERPAC Quick Charger 18V - 230VAC EU Plug.

***EC182AUSQC - ENERPAC Quick Charger 18V - 230VAC AUS/NZ Plug.

4.3 External Dimensions

Item	Dimension		
	A	B	C
inch	4.7	5.8	2.9
mm	121.3	148.7	75.1



5.0 FEATURES & COMPONENTS

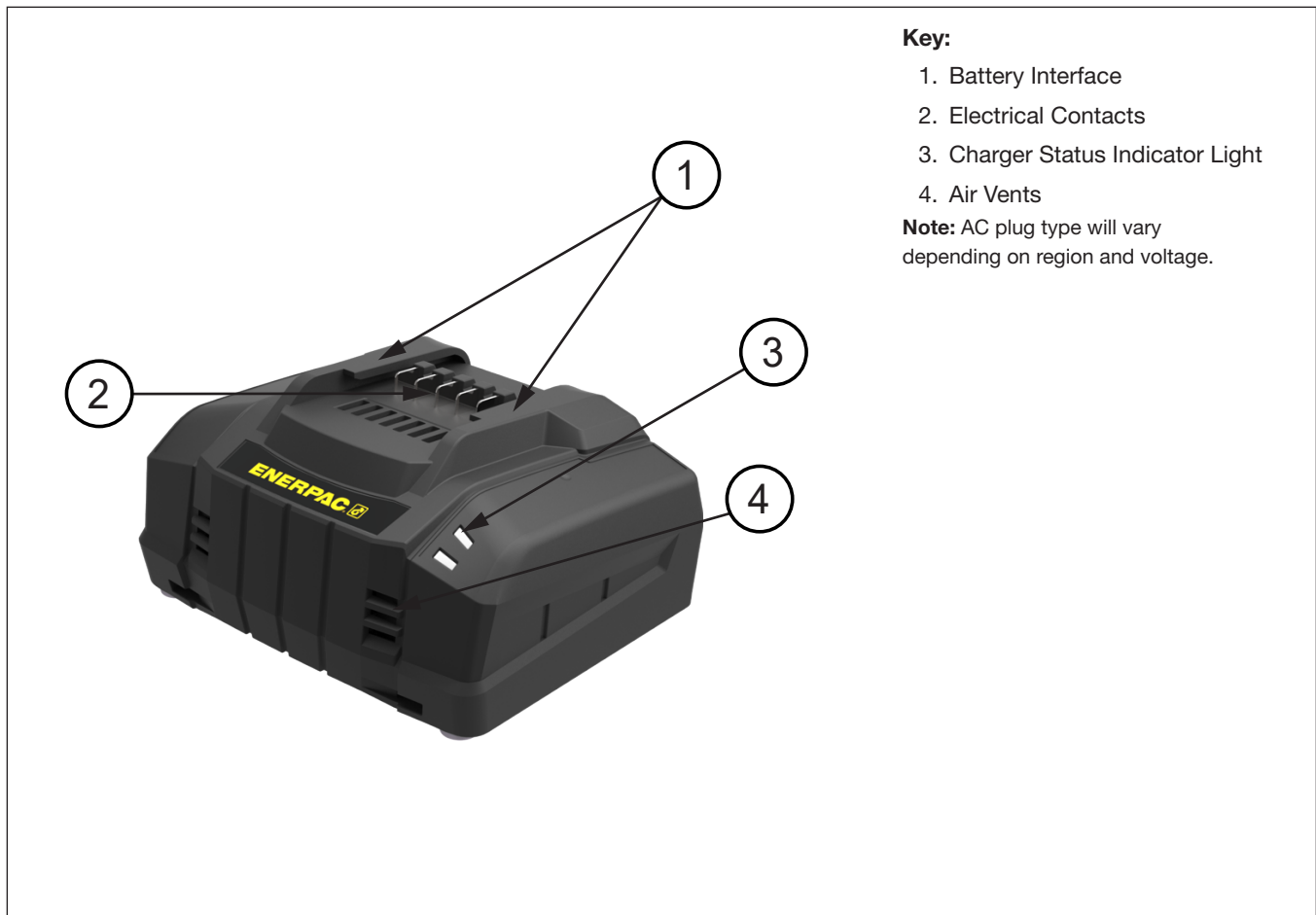


Figure 1: Features & Components, 18V Lithium-Ion Battery Charger

6.0 SETUP & USE

6.1 Receiving Instructions

Visually inspect all components for shipping damage. Shipping damage is not covered by warranty. If shipping damage is found, notify carrier at once. The carrier is responsible for all repair and replacement costs resulting from damage in shipment.

6.2 Setup

Connect the end of the power cord to an electrical outlet of the proper type and voltage. Refer to Section 4.2 for complete input power specifications based on region of use.

6.3 Installing and Removing Battery

To install: Slide the battery onto the charger battery interface and insert it fully into the charger, making sure that it latches in place.

To remove: Slide the battery off of the charger battery interface and remove it.

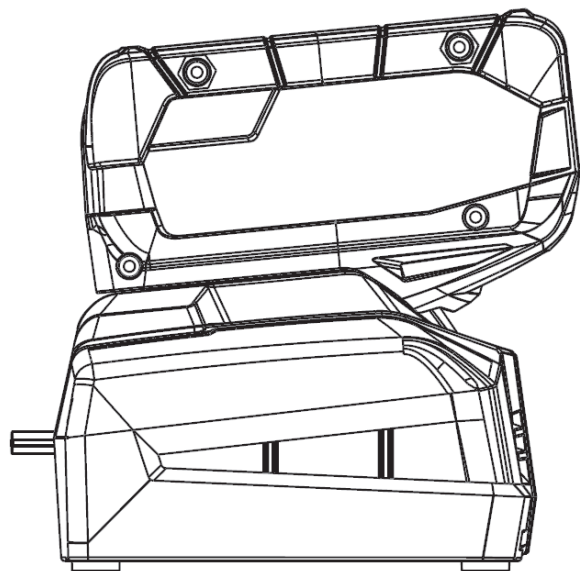


Figure 2: Battery Installed on Charger

6.4 General Information

NOTICE Batteries must be purchased separately if they are not included in the shipment with the charger or cordless tool.

- Fully charge a new battery before its first use.
- During charging, make sure ambient temperature is between 32 and 103°F [0 and 40°C]. Charge the battery at room temperature if possible.
- A fully charged battery may remain inserted in the charger until it is needed. However, it is recommended that the charger power cord be disconnected from the electrical outlet after the battery is removed from the charger.
- Whenever possible, charge the battery before it becomes fully discharged by the cordless tool. This will help prevent premature battery failure.
- Refer to the separate battery manual (L4807) for complete battery information and safety precautions.

6.5 Battery Charging

When the battery is inserted into the charger, the charger status indicator light will begin flashing, indicating that charging mode is in progress.

To have the charge level displayed on Li-ion battery packs, first take the battery pack out of the charger and then press the button on the battery pack.

When the battery is fully charged, the charger status indicator light will change from flashing green to solid green.

Battery model EB18V5 requires 41 minutes to be charged. Battery model EB18V8 requires 60 minutes to be charged.

6.6 Conservation Charge

Once the charging process has finished, the battery charger automatically switches to conservation mode.

The battery pack can remain in the battery charger and is therefore always ready for use.

The operating display lights up continuously.

6.7 Temperature Fault

If an overheated or cold battery is inserted into the charger, the charger status indicator light will immediately begin flashing red. This indicates that a temperature fault has occurred.

Allow the battery to remain in the charger. When the battery temperature changes to an acceptable temperature, the temperature fault will reset automatically. The charger status indicator light will change from flashing red to flashing green, indicating that charging is in progress.

6.8 Charging Status Indication

6.8.1 Charging Battery

Make sure that the battery is completely engaged onto the battery charger, then the battery charger will start the charging process and the operating indicator will flash.



Figure 3: Operating Indicator Flashing

6.8.2 Conservation Charge

When the charging process is completed, the battery charger will change to conservation mode. The battery can stay at the battery charger and it will be ready to be used. The operating display will light up continuously.



Figure 4: Conservation Mode

6.8.3 Fault

When the temperature of the battery is lower than 0°C degrees and over 50°C degrees, the charging process is stopped. The warning display will light up continuously.



Figure 5: Fault Display

If the warning display flashes continuously:

1. The battery is defective. Remove the battery immediately from the battery charger.
2. The battery is not installed correctly in the battery charger.



Figure 6: Battery Fault Display

To help confirm a damaged battery, insert a different battery into the charger. If after a 60 second period the charger status indicator light does not change to solid red, it is an indication that the charger is functioning properly and that the original battery is damaged.

NOTICE If the cause of a charging fault cannot be determined, take the charger and battery to an Enerpac authorized service center for inspection and diagnosis.

7.0 CARE & MAINTENANCE

WARNING To avoid personal injury and the risk of fire and electric shock, remove the battery from the charger before beginning any cleaning or inspection procedures. Be sure the charger AC power cord is disconnected from the electrical outlet.

CAUTION Do not use solvents or detergents on the charger's plastic housing or plastic components. Certain household cleaners may cause damage and may cause a shock hazard.

- Keep the charger clean and free of debris. Do not allow foreign material to get into the charger's recessed cavity and electrical contacts.
- Check that the battery and/or charger contacts are not shorted by debris or foreign material.
- Wipe the charger only with a soft, dry cloth. Do not use solvents or water.

CAUTION Always wear eye and face protection before using compressed air for cleaning purposes.

- If necessary, brush or blow dust and debris out of the charger air vents using compressed air or a vacuum cleaner. Keep the air vents free of obstructions, sawdust and wood chips, dirt, etc. Do not spray, wash or immerse the air vents in water.

8.0 STORAGE

- If the battery will be stored for 3 months or longer, fully charge the battery before placing the battery and/or charger in storage.
- Store the charger at normal room temperature, in a clean, dry and secured area. Do not store the charger in moist or wet environments or in an area of excessive heat.
- If desired, the battery may be placed in the charger during storage (with AC power cord disconnected from electrical outlet).

9.0 DISPOSAL/END OF LIFE

When the charger has reached the end of its useful life, dispose of it as described in the following steps:

1. Remove the battery from the charger (if present).
2. Disconnect the charger AC power cord from the electrical outlet.
3. Take the charger to an approved industrial recycling facility for disposal.

 **WARNING** Refer to the battery manual for important battery disposal instructions.

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