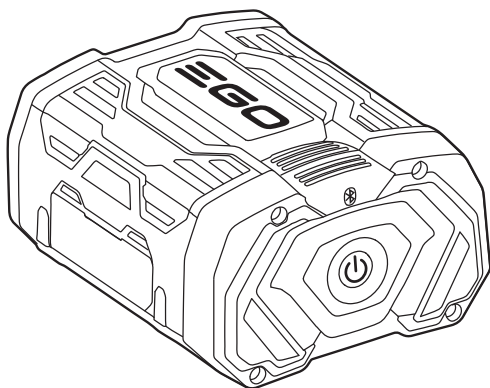




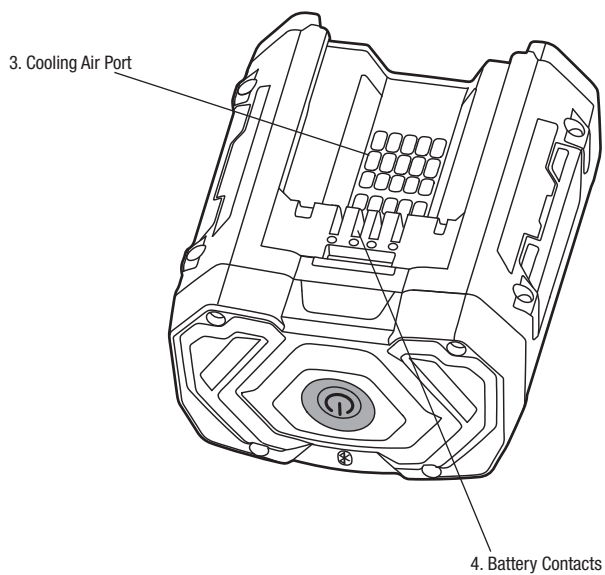
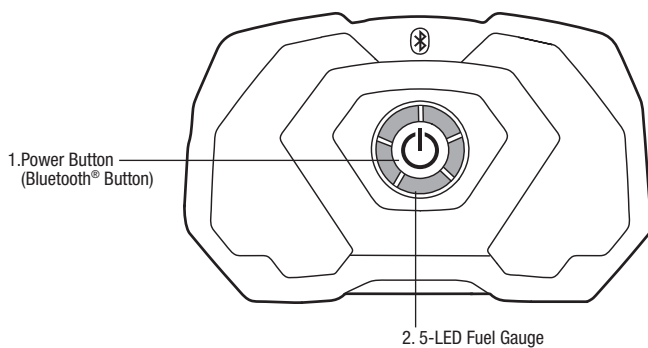
POWER⁺ BATTERY



OPERATOR'S MANUAL
**56 VOLT TABLESS BATTERY
MAX 8.0AH**

BA4480X

⚠ WARNING: To reduce the risk of injury, the user must read and understand the Operator's Manual before using this product. Save these instructions for future reference.



READ ALL INSTRUCTIONS!



READ OPERATOR'S MANUAL

⚠ WARNING: To ensure safety and reliability, all repairs should be performed by a qualified service technician.

SAFETY SYMBOLS

The purpose of safety symbols is to attract your attention to possible dangers. The safety symbols and the explanations with them deserve your careful attention and understanding. The symbol warnings do not, by themselves, eliminate any danger. The instructions and warnings they give are no substitutes for proper accident prevention measures.

⚠ WARNING: Be sure to read and understand all safety instructions in this Operator's Manual, including all safety alert symbols such as **"DANGER"**, **"WARNING"**, and **"CAUTION"** before using this tool. Failure to follow all instructions listed below may result in electric shock, fire, and/or serious personal injury.

⚠ WARNING: Risk of fire and burns. Do not disassemble, heat above 100 °C, or incinerate. Keep battery out of reach of children and in original package until ready to use. Dispose of used batteries promptly according to local recycling or waste regulations.

SAFETY INSTRUCTIONS

This page depicts and describes safety symbols that may appear on this product. Read, understand, and follow all instructions on the machine before attempting to assemble and operate.

	Safety Alert	Precautions that involve your safety.
	Read the Operator's Manual	To reduce the risk of injury, user must read and understand operator's manual before using this product.
	Recycle Symbols	Do not dispose of battery packs/batteries into household waste, fire or water. Battery packs/batteries should be collected, recycled or disposed of in an environmental friendly manner.

	Remove the battery pack	Always remove the battery pack from the product when you are assembling parts, making adjustments, cleaning, or when the product is not in use.
	Do not expose battery pack/battery cells to fire.	Against continuous intense sunlight, fire, water, and moisture. Danger of explosion.
	Do not expose battery pack/battery cells to water.	
	Ambient temperature of battery pack charging	For best results, your battery should be charged in a location where the temperature is greater than 5°C and less than 40°C.
	Battery Charger	Use only with the specified chargers.
	Bluetooth®	Bluetooth® Symbol
IPX5	Ingress Protection Rating	Protection against water jets
V	Volt	Voltage
A	Amperes	Current
Hz	Hertz	Frequency (cycles per second)
W	Watt	Power
min	Minutes	Time
	Alternating Current	Type of current
	Direct Current	Type or a characteristic of current

⚠ WARNING: Read and understand all instructions. Failure to follow all instructions listed below may result in electric shock, fire, and/or serious injury.

WORK AREA SAFETY

- **Keep work area clean and well lit.** Cluttered or dark areas invite accidents.
- **Do not operate machines in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust.** Machines create sparks which may ignite the dust or fumes.

ELECTRICAL SAFETY

- **Do not expose machines to rain or wet conditions.**

Water entering machine will increase the risk of electric shock.

- **Use only with chargers listed below:**

CHARGERS	CH2100E, CH5500E, CH7000E, CH7000E-T
HUB+DOCK	PGX1600E-H + PGX3000D
HUB+POWER BANK	PGX1600E-H + PGX1400PB

BATTERY MACHINE USE AND CARE

- **Recharge only with the chargers specified by the manufacturer.** A charger that is suitable for one type of battery may create a rise of fire when used with another battery.
- **Use machines only with specifically designated batteries.** Use of any other batteries may create a risk of injury and fire.
- **When battery is not in use, 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.
- **Under abusive conditions, liquid may be ejected from the battery; avoid contact. If contact accidentally occurs, flush with water. If liquid contacts eyes, additionally seek medical help.** Liquid ejected from the battery may cause irritation or burns.
- **Do not dismantle, open or shred secondary cells or batteries.**
- **Do not expose cells or batteries to heat or fire.** Avoid storage in direct sunlight.
- **Do not short-circuit a cell or a battery.** Do not store cells or batteries haphazardly in a box or drawer where they may short-circuit each other or be short-circuited by other metal objects.
- **Do not remove a cell or battery from its original packaging until required for use.**
- **Do not subject cells or batteries to mechanical shock.**
- **In the event of a cell leaking, do not allow the liquid to come in contact with the skin or eyes.** If contact has been made, wash the affected area with copious amounts of water and seek medical advice.
- **Do not use any charger other than that specifically provided for use with the equipment.**
- **Do not use any cell or battery which is not designed for use with the equipment.**

- **Do not mix cells of different manufacture, capacity, size or type within a battery.**
- **Keep cells and batteries out of the reach of children.**
- **Seek medical advice immediately if a cell or a battery has been swallowed.**
- **Always purchase the correct cell or battery for the equipment.**
- **Keep cells and batteries clean and dry.**
- **Wipe the cell or battery terminals with a clean dry cloth if they become dirty.**
- **Secondary cells and batteries need to be charged before use.** Always use the correct charger and refer to the manufacturer's instructions or equipment manual for proper charging instructions.
- **Do not leave a battery on prolonged charge when not in use.**
- **After extended periods of storage, it may be necessary to charge and discharge the cells or batteries several times to obtain maximum performance.**
- **Secondary cells and batteries give their best performance when they are operated at normal room temperature (20 °C ± 5 °C).**
- **Retain the original product literature for future reference.**
- **Use only the cell or battery in the application for which it was intended.**
- **When possible, remove the battery from the equipment when not in use.**
- **Dispose of properly.**

SERVICE

- **Follow instructions in the Maintenance section of this manual.** Use of unauthorized parts or failure to follow Maintenance instructions may create a risk of shock or injury.
- **Never service damaged battery packs.** Service of battery packs should only be performed by the manufacturer or authorized service providers.

SPECIFIC SAFETY RULES

- **Know your machine.** Read the operator's manual carefully. Learn the applications and limitations, as well as the specific potential hazards related to the machine. Following this rule will reduce the risk of electric shock, fire, or serious injury.
- **Battery machines do not have to be plugged into an electrical outlet; therefore, they are always in operating condition.** Be aware of possible hazards

when not using your battery machine. Always remove the battery before changing accessories. Following this rule will reduce the risk of electric shock, fire or serious personal injury.

- **Do not place the battery machines or battery near fire or heat.** This will reduce the risk of explosion and possibly injury.
- **Do not dispose of the batteries in a fire.** The cells may explode. Check with local codes for possible special disposal instructions.
- **Do not open or mutilate the battery.** Released electrolyte is corrosive and may cause damage to the eyes or skin. It may be toxic if swallowed.
- **Do not crush, drop or damage the battery.** Do not use a battery or charger that has been dropped or received a sharp blow. A damaged battery is subject to explosion. Properly dispose of a dropped or damaged battery immediately.
- **Batteries vent hydrogen gas and can explode in the presence of a source of ignition, such as a pilot light.** To reduce the risk of serious personal injury, never use any cordless product in the presence of open flame. An exploded battery can propel debris and chemicals. If exposed, flush with water immediately.
- **Do not charge the battery in a damp or wet location.** Following this rule will reduce the risk of electric shock.
- **For best results, your battery should be charged in a location where the temperature is greater than 5° C and less than 40° C.** Do not store it outside or in vehicles.
- **Under extreme usage or temperature conditions, battery leakage may occur.** If liquid comes in contact with your skin, wash immediately with soap and water, then neutralize with lemon juice or vinegar. If liquid gets in your eyes, flush them with clean water for at least 10 minutes, and then seek immediate medical attention. Following this rule will reduce the risk of serious personal injury.
- **Do not let gasoline, oils, petroleum-based products, etc. come in contact with plastic parts.** These substances contain chemicals that can damage, weaken or destroy plastic.
- **Have your battery serviced by a qualified repairperson using only identical replacement parts.** This will ensure that the safety of the battery is maintained.
- Do not use a battery that is damaged or modified. Damaged or modified batteries may exhibit

unpredictable behavior resulting in fire, explosion or risk of injury.

- Do not expose a battery 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 outside of the temperature range specified in the instructions. Charging improperly or at temperatures outside of the specified range may damage the battery and increase the risk of fire.
- Do not modify or attempt to repair the battery except as indicated in the instructions for use and care.

Save these instructions. Refer to them frequently and use them to instruct others who may use this machine. If you lend someone this machine, lend them these instructions also to prevent misuse of the product and possible injury.

SPECIFICATIONS

Battery	56 V  8.0 Ah Li-ion
Battery Designation	14INR22/70-2
Nominal Voltage	50.4 V 
Recommended Charging Temperature	5 °C – 40 °C
Recommended Storage Temperature	10 °C – 26 °C
Weight	3 kg

DESCRIPTION

KNOW YOUR BATTERY PACK (Fig. A)

1. Power Button (Bluetooth® Button)
2. 5-LED Fuel Gauge
3. Cooling Air Port
4. Battery Contacts

OPERATION

5-LED FUEL GAUGE

This lithium-ion battery pack features a 5-LED fuel gauge. Briefly press the power button and the LED fuel gauge will display the battery charge level or working condition for 10 seconds.

5-LED FUEL GAUGE		BATTERY CHARGE LEVEL / WORKING CONDITION
	All 5 LEDs glow solid green	Charge level 80% to 100%
	4 LEDs glow solid green	Charge level 60% to 80%
	3 LEDs glow solid green	Charge level 40% to 60%
	2 LEDs glow solid green	Charge level 20% to 40%
	1 LED glows solid green	Charge level 10% to 20%
	1 LED flashing red	Charge level less than 10%
	All 5 LEDs flashing red	Low charge level. The battery pack is nearly depleted and needs to be charged immediately.
	All 5 LEDs glow solid red	Battery pack is too hot or too cold. Cool or warm the battery pack until its temperature reaches the -17 °C – 67 °C temperature range.
	All 5 LEDs flash green every two seconds.	The battery pack is automatically performing self-maintenance to extend its life. All 5 LEDs will run the cycle until the self-maintenance is finished.
	All 5 LEDs flashing blue	Press the Bluetooth® button for 3 seconds, then wait for the battery pack to connect. All 5 LEDs will flash blue during pairing.
	All 5 LEDs glow solid blue	All 5 LEDs will glow solid blue when the battery pack is connected to your mobile device.

BATTERY PROTECTION

The battery circuitry protects the battery pack from extreme temperature, over-discharge, and over-charge. To protect the battery from damage and prolong its life, the battery pack circuitry will turn off the battery pack if it becomes overloaded or if the temperature becomes too high during use. This may happen in extremely high torque, binding, or stalling situations. The battery pack will shut down with the LED indicator shining red for 10 seconds when its operating temperature exceeds 70 °C, and will begin normal operation when it returns to 67 °C.

Notice: A significantly reduced run time after fully charging the battery pack indicates that the batteries are near the end of their usable life and must be replaced.

COLD WEATHER OPERATION

This lithium-ion battery pack will provide optimal performance in temperatures between 10 °C and 26 °C. When the battery pack is very cold, it may “pulse” for the first minute of use to warm itself. Install the battery pack on a tool and use the tool in light operation. After about a minute, the battery pack will have warmed itself and will operate normally.

Self-diagnostic Mode

Press and hold the power button for six seconds. The battery will enter self-diagnostic mode and the LED light(s) will stay lit for approximately 10 seconds.

5-LED FUEL GAUGE		BATTERY CHARGE LEVEL / WORKING CONDITION
	All 5 LEDs glow solid green.	Battery pack functions normally.
	All 5 LEDs are flashing green and red alternately.	Defective battery. The battery cannot be charged or discharged. Please contact EGO service centre.
	All 5 LEDs glow solid orange.	Battery capacity is below 40% of its original capacity. Please contact EGO service centre.

BLUETOOTH® WIRELESS TECHNOLOGY

Products with built-in Bluetooth® wireless technology can connect to mobile devices using EGO apps. Please visit www.egopowerplus.com.au for instructions and follow guidance in the EGO Connect app on how to connect and use the Bluetooth® function.

WHEN TO CHARGE THE BATTERY PACK

Notice: This lithium-ion battery pack is shipped partially charged. Before using it the first time, fully charge the battery pack.

Notice: This battery pack is equipped with an advanced self-maintenance function to extend the battery life. Depending on the battery charge, it will automatically perform a self-discharge operation after one month of storage. After this self-maintenance, the battery pack will enter sleep mode and maintain 30% of its charge capacity. If stored for a month or longer, fully recharge

the battery before the next use. It is not necessary to run down the battery pack charge before recharging. The lithium-ion battery can be charged at any time and will not develop a “memory” when charged after only a partial discharge. Use the 5-LED indicator to determine when the battery pack needs to be recharged.

HOW TO CHARGE THE BATTERY PACK

Follow the instructions in the operator’s manual for the EGO charger.

HOW TO ATTACH AND DETACH THE BATTERY PACK

Follow the instructions in the operator’s manual for the individual EGO product.

MAINTENANCE

⚠ WARNING: To avoid serious personal injury, always disconnect all devices and remove the battery pack from the machine when cleaning or performing any maintenance.

GENERAL MAINTENANCE

Avoid using solvents when cleaning plastic parts. Most plastics are susceptible to damage from various types of commercial solvents and may be damaged by their use. Use a clean cloth to remove dirt, dust, oil, grease, etc.

⚠ WARNING: Never let brake fluids, gasoline, petroleum-based products, penetrating oils, etc., come in contact with plastic parts. Chemicals can damage, weaken, or destroy plastic which may result in serious personal injury.

⚠ WARNING: To reduce the risk of fire, personal injury, and product damage due to a short circuit, never immerse your machine, battery pack, or charger in fluid or allow a fluid to flow inside them. Corrosive or conductive fluids, such as seawater, certain industrial chemicals, and bleach or bleach-containing products, etc., can cause a short circuit.

MAINTAINING THE BATTERY PACK

The battery pack is equipped with lithium-ion rechargeable batteries. The duration of use from each charge will depend on the type of work performed.

The batteries have been designed to provide maximum trouble-free life. Like all batteries, they will eventually wear out.

Do not disassemble the battery pack or attempt to replace the batteries. Handling of the batteries, especially when wearing rings and jewelry, could result in a serious burn.

To obtain the longest possible battery life, read and understand the operator’s manual.

- It is good practice to unplug the charger and remove the lithium-ion battery pack when not in use.

For lithium-ion battery pack storage longer than 30 days:

Store the lithium-ion battery pack where the temperature is below 26 °C and free of moisture.

- Store lithium-ion battery pack in a 30% – 50% charged condition.
- Every six months of storage, fully charge the lithium-ion battery pack.
- Exterior may be cleaned with a cloth or soft nonmetallic brush.

BATTERY PACK REMOVAL AND PREPARATION FOR RECYCLING



Li-ion

Do not dispose of battery charger and batteries/rechargeable batteries into household waste!

Electrical and electronic equipment that is no longer usable, defective or used battery packs/batteries, must be collected separately and disposed of in an environmentally correct manner.

Consult your local waste authority for information regarding available recycling and/or disposal options.

⚠ WARNING: Upon removal of the battery pack for disposal or recycling, cover the battery pack’s terminals with heavy-duty adhesive tape. Do not attempt to destroy or disassemble the battery pack or remove any of its components. Lithium-ion batteries must be recycled or disposed of properly. Also, never touch the terminals with metal objects and/or body parts as a short circuit may result. Keep away from children. Failure to comply with these warnings could result in fire and/or serious injury.

BATTERY PACK BECOMES WET OR SUBMERGED

If you drop the battery pack in water, or a large volume of water enters the battery pack, you must **STOP USING THE BATTERY PACK** and follow these steps:

NOTE: Contact EGO service centre for support.

State clearly: "My lithium-ion battery pack has been submerged in water."

⚠ WARNING: Do not touch the battery pack with bare hands. Wear rubber gloves and safety glasses.

⚠ WARNING: Do not use or charge the battery pack. Water entering the battery pack will cause a significant fire and explosion risk.

⚠ WARNING: Do not open or mutilate the battery pack. Released electrolyte is corrosive and may cause damage to the eyes or skin. It may be toxic if swallowed.

⚠ WARNING: Do not shake, tilt, or jar the battery pack. Agitation can cause internal short circuits.

⚠ WARNING: Do not use heat. NEVER use a hairdryer, oven, or heater to dry the battery pack.

Heat can trigger "thermal runaway," a self-sustaining fire that cannot be extinguished easily.

⚠ WARNING: Do not dispose of the battery in household trash. A compromised Li-ion battery is hazardous waste and must be disposed of according to applicable laws and regulations.

1. Carefully place the battery pack in a dry fireproof bucket or bin, if available.
2. Put the battery pack in a well-ventilated, nonflammable area away from people, pets, and anything that can burn. Do not place it on wood, carpet, or in a car.
3. **For safety, it is strongly recommended to place the battery in a large water bucket with FRESH WATER and FULLY SUBMERGE the battery pack for more than 24 hours.** This will cause the cells to internally discharge completely and make it safe to dispose of at your local battery depot.
4. You must dispose of the battery following local restrictions for battery disposal.

TROUBLESHOOTING

PROBLEM	CAUSE	SOLUTION
All 5 LEDs glow solid red when the battery pack is working.	The battery pack is too hot or too cold.	Cool or warm the battery pack until its temperature reaches the -17 °C – 67 °C temperature range.
All 5 LEDs flash red when the battery pack is working.	The charge of the battery pack is low and nearly depleted.	Charge the battery pack.
The battery pack cannot be charged or discharged.	After pressing and holding the power button for six seconds, all 5 LEDs flash green and red alternately, which means the battery pack is defective.	Please contact EGO service centre for help.
The run time of the fully charged battery pack is significantly reduced.	After pressing and holding the power button for six seconds, all 5 LEDs glow solid orange, which means the battery capacity is below 40% of its original capacity.	Please contact EGO service centre for help.
The battery pack charge is reduced after more than one month of non-use.	The battery pack has automatically performed self-maintenance to extend its life.	Fully recharge the battery pack before use.
The battery endcap gets warm during storage. The 5 LEDs flash green every two seconds.	The battery pack is automatically performing self-maintenance to extend its life. The LEDs will run the cycle until the self-maintenance is finished.	This is normal operation; no action required.

WARRANTY

EGO WARRANTY POLICY

For full warranty terms and conditions, warranty service or to make a claim, please visit our website egopowerplus.com.au/warranty-policy.

Also see full warranty details & warranty table on the 'NEED HELP?' flyer contained within this product.

Alternatively you can contact EGO customer service via the following:

Australia

Address: Chervon Australia Pty Ltd, Unit 14, 5 Kelletts Rd, Rowville, VIC, 3178.

Phone: 1300 000 346

Email: support@egopowerplus.com.au

New Zealand

Address: Chervon New Zealand Subsidiary Ltd, 4th Floor, Smith & Caughey Building, 253 Queen St, Auckland, 1141.

Phone: 0508 000 346

Email: support@egopowerplus.co.nz

