



BLUELINE

THE NEXT STAGE IN LITHIUM


P3 RECOVERY UNIT
PORTABLE POWER PACK (P3)



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THE NEXT STAGE IN LITHIUM



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WARNING

Failure to follow these instructions can result in electrical shock, fire, death, serious bodily injury and property damage.

Read and understand this entire manual before using this battery or charger.

KEEP AWAY FROM CHILDREN.

The P3 portable power (battery) pack must only be serviced by the manufacturer or trained personnel. It does not have any end-user serviceable components inside.

Contact Blue Line for all service needs:
service@bluelinebattery.com

INTRODUCTION

Welcome to the User Manual for the P3 Recovery Unit: Lithium Portable Power Pack. This device is designed to provide a safe, convenient and portable solution for charging and maintaining short-duration battery power of forklifts and other material handling equipment. It is an essential tool for two unique use cases:

- To recover dead forklifts safely, without the use of heavy lead acid carts or towing dead equipment with other forklifts and chains.
- To safely and efficiently unload newly delivered forklifts, which typically arrive without batteries.

The P3 Portable Battery Pack is compatible with a wide range of forklifts and other industrial equipment (lithium and lead acid) with operational voltages of 24V, 36V, and 48V.



SAFETY PRECAUTIONS

Please follow these important safety instructions to ensure proper operation of the Portable Battery Pack. The P3 (referred to after this point as the “battery pack”) contains hazardous lithium-ion cells. To reduce the risk of electrical shock, fire, death, serious bodily injury and/or property damage:

READ ALL INSTRUCTIONS

Before using the portable battery pack thoroughly.

DO NOT ATTEMPT TO MODIFY OR ALTER

Any of the components of the P3, or its charger or cabling.

NEVER TOUCH ELECTRICAL TERMINALS

Metal objects and/or body parts as short circuits and electrocution may result.

DO NOT CHARGE THE P3 WITH AN UNAPPROVED CHARGER

The only charger that may be used with the P3 unit is the Blue Line charger included with the P3.

USE ONLY APPROVED CABLES AND CHARGER

Ensure the cables and charger provided are the only ones used with the battery pack.

DO NOT EXPOSE TO EXTREME TEMPERATURES

Do not use or store the system outside of the temperature limits. The P3 must be used and stored in an environment between 0 and 40 C.

DO NOT SUBJECT THE BATTERY TO UNNECESSARY JARRING OR VIBRATION

Do not drop the battery.

DO NOT OVERCHARGE OR OVER-DISCHARGE THE UNIT

DO NOT TRANSPORT THE BATTERY WITHOUT CONSULTING WITH THE CARRIER

CONSULT YOUR LOCAL WASTE AUTHORITY

For information regarding available recycling and/or disposal options. Local, state or federal laws may prohibit disposal of lithium-ion batteries in ordinary trash. For alternatives, please contact Blue Line Battery for recommended lithium recyclers.

DO NOT OPEN THE P3 OR CHARGER BOX

Opening the P3’s main cover or charger box will void the warranty.

THE P3 BATTERY SHOULD NOT BE USED TO MOVE PALLETS OR IN ANY HEAVY-USE APPLICATIONS

This will void the warranty.

AVOID WATER EXPOSURE

Keep the battery pack and charger dry. Do not expose to rain or moisture.

CHECK BATTERY VOLTAGE

Ensure the forklift’s operating voltage matches the specifications of the Portable Battery Pack.

IF YOUR P3 IS DAMAGED:

Do not use the P3 product if it has been damaged. Do not use the P3 if any wiring and/or wiring insulation is damaged, if you notice any “sweet” smells coming from the battery pack, or if it is emitting fire, smoke or sparks.

DO NOT TOUCH ANY LIQUIDS OR MATERIALS THAT COME FROM A DAMAGED BATTERY PACK

If the battery has a breach and chemicals are spilled, only trained personnel may clean the spill. A battery with spilled chemicals presents a fire hazard and should be moved to a safe location. Call Blue Line immediately for more instructions.

SAFE USE PARAMETERS

- When used correctly, the system provides a safe and dependable source of portable power. However, misuse or abuse may result in leakage, fire, or explosion, and will void the warranty.
- The P3 should only be used to move equipment. It is not to be used to transport materials or be used in typical operation.
- The system should not be left plugged into equipment when not in use.
- The system may not exceed greater than 120 amps of pulsed discharging current.
- The system must be kept between 0°C and 40°C at all times.
- Do not get the system wet.
- Test for proper polarity and voltage before plugging the battery into equipment. Batteries that are incorrectly connected may short circuit, or may cause equipment to short circuit.
- Keep contacts clean, both on the battery and in the equipment. Clean the battery and electrical contacts prior to battery connection. Use non-conductive electrical contact cleaners to clean electrical contacts.
- Never dispose of batteries in a fire. When batteries are disposed of in a fire, the heat build-up may cause an explosion and personal injury. Do not incinerate batteries.
- Never heat batteries to revive them. Do not expose cells or batteries to heat or fire. Avoid storage in direct sunlight. When a battery is exposed to heat; venting, leakage and explosion may occur and cause personal injury.
- Never attempt to disassemble, crush, puncture, or open batteries. Such abuse may result in venting, leakage, rupture, and cause personal injury or death.
- Do not short-circuit a cell or battery.
- 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 a large volume of water and seek medical care immediately.
- Do not use the P3 in a manner that is not intended.

FEATURES



PORTABLE DESIGN:

Compact and easy to transport.



QUICK CHARGE CAPABILITY WITH BLUE LINE'S P3 CHARGER:

Provides efficient charging, reducing downtime.



UNIVERSAL COMPATIBILITY:

Works with various forklift and equipment models, operating at voltages of 24V, 36V and 48V.

SPECIFICATIONS

P3 PORTABLE BATTERY PACK

OUTPUT VOLTAGE(S):

24V / 36V / 48V

SB175 Red (24V), Grey (36V) & Blue (48V)

BATTERY CAPACITY:

63ah, 50ah usable

MAX CONTINUOUS CHARGE:

25a Continuous

MAX PEAK DISCHARGE (3 SEC):

120a

WEIGHT:

95-100 lbs. (43-45 kg)

DIMENSIONS:

30" x 15" x 8" inches (with handle max height 33")

CHARGING TIME:

Approx. 2-3 hours

Must be charged at least once every 3 months. For performance, charge the P3 whenever it is not in use.

P3 CHARGER BOX

INPUT VOLTAGE:

120V AC

MAXIMUM CHARGING CURRENT:

25A

WEIGHT:

30 lbs. (13 kg)

DIMENSIONS:

14.25" x 5.75" x 23.75" inches

COOLING SYSTEM:

Forced air

ENTIRE UNIT

OPERATING TEMPERATURE MIN/MAX:

0°C to 40°C (32°F to 104°F)

NORMAL STORAGE:

10°C to 25°C (50°F to 77°F)

BEST PRACTICE:

Do not exceed 40°C (104°F)

**Disclaimer: The Portable Power Pack (P3) is not designed or intended to be used as a counterweight or power load lifting for any and all models of forklifts / industrial equipment. The P3 is solely designed for forward or reverse travel and is not a direct replacement battery for any equipment.*

INSPECTION

The P3 system should be inspected before and after every use. The following should be inspected and verified to ensure a safe and operational device:

- Voltage is within operational parameters on all plugs and readouts.
- The battery is in the off (O) position when not in use.
- The system is within temperature limits.
- All wiring and wiring insulation is undamaged.
- The system does not have any physical damage.
- The system is being used in a safe manner.

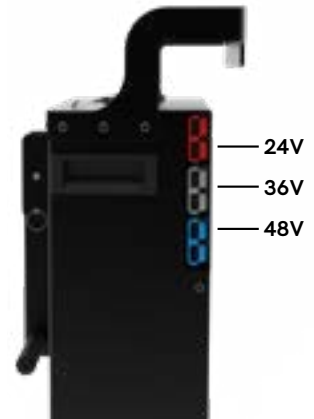
DISCHARGE & CHARGING

DISCHARGING

The P3 system can discharge peak currents of up to 120 amps for up to a 3-second duration, and 50 amps continuously. The amp values will be derated as the battery approaches a fully discharged state. The battery should not be discharged once 0% is indicated.

The system must be kept within operational voltage parameters. The 24V plug may not be discharged below 23.1V, the 36V plug below 33V, and the 48V plug below 46.2V.

The P3 has three SB-175 discharge plugs. Red discharges 24 volts, gray discharges 36 volts, and blue discharges 48 volts. DO NOT plug the P3 into any 12-volt, 80-volt, 72-volt, or 96-volt equipment, and DO NOT attempt to charge the battery through these plugs.



CHARGING

The system MUST be charged ONLY with the Blue Line Portable Power Pack 110VAC external charger, and MUST NOT BE CHARGED WITH ANY OTHER CHARGER. The charger input is rated for 105-130V AC. Use only the power cords supplied with the system. DO NOT attempt charging through the product's SB-175 ports. Doing so will void the warranty, may result in overcharging, and may result in explosion and/or fire. The external P3 charger charges at a rate of 25 amps DC, which will taper as the P3 approaches full charge. The charge time is approximately 2 hours. The system must be charged fully at least once every three months. Please note that the switch must be in the on, or "I," position for both the P3 and the charger before the P3 engages charge. DO NOT leave P3 charging unattended.

To verify that the internal chargers in the charger box are charging, LED status lights are visible on the individual charger modules by looking through the air vents on the charger enclosure. Each internal charger has two status lights that change from red to green. Red and green lights on the internal chargers indicate that the charge is complete; red / red lights on the chargers indicate the charger is still running.

Overcharging, while not common and protected against within the battery, can cause a thermal runaway and a fire to occur. Consequently, it is most important that the charging voltage never exceeds 28V for the 24V plug (red), 40V for the 36V plug (gray), and 56V for the 48V plug (blue).

UNBOXING & SET-UP



CHARGER BOX
MOUNTING SCREWS/BRACKETS NOT INCLUDED. AVAILABLE FOR PURCHASE UPON REQUEST.



**P3 PORTABLE POWER BATTERY
PACK UNIT**



CHARGER HARNESS



120V AC INPUT POWER CORD



**DISCHARGE EXTENSION CABLES AND
CONNECTOR KIT (24V, 36V, 48V)**

A - (1) 8' 1/0 SB175 - SB350 Red - 24V

B - (1) 8' 1/0 SB175 - SB350 Grey - 36V

C - (1) 8' 1/0 SB175 - SB350 Blue - 48V

AVAILABLE FOR PURCHASE UPON REQUEST.



USER MANUAL AS REQUESTED

SET-UP INSTRUCTIONS

1. Place the battery pack on a flat, stable surface. Remove all plastic wrapping.
2. Inspect for damage. Ensure all materials were not damaged during shipping. This includes visible dents, damaged wire insulation, metal discoloration (this is a sign of heat buildup), etc.
3. Check the connectors. Ensure the charging cables, if purchased, are in good condition and that they match the forklift's battery type.
4. Verify the power source. Ensure the location you are using provides the appropriate AC power to the unit (120V AC) and is a dedicated wall outlet. The P3 Charger may draw as much as 18 amps. A dedicated 110v circuit with capacity greater than 18 amps should be used.
5. Install the charger box. Mount the charger box to an accessible wall using the appropriate anchors for wall type and weight (30 lbs). Due to risk of dirt, moisture, and damaging the charger box, do not leave the charger box on the floor.
6. Plug in the Charger Box. Insert the 120V AC Input Power Cord into the Charger Box and plug the cord into a dedicated 120V power outlet.
7. Turn on the Charger Box by turning on the AC power switch. The LED indicator should light up, signaling the Charger Box is ready for use.
8. Connect the Charger Harness to the Charger Box. Begin by aligning the grey 6-pin connectors and using the arrows to ensure the harness moves into proper position. You will be able to push the harness slightly and feel a click. Once the pins are aligned, turn the harness clockwise to lock into place. Once locked, a quick pull test will confirm whether the charger plug is inserted properly. **BE SURE TO ALIGN THE PLUG PINS PROPERLY. FAILURE TO DO THIS MAY CAUSE PINS TO BREAK.** Broken charge plug pins are not covered under warranty.

P3 IS READY FOR CHARGING



1. Place the P3 unit next to the mounted Charger Box. The P3 unit should be rolled into an upright position near the charger box.
2. On the P3 unit, move the towing handle into an upward position and pin in place.
3. Start with the P3 turned off.
4. Connect the other end of the Charger Harness to the P3 Unit.
5. Align the pins on the plug with the socket on the P3's receptacle, and fully insert the plug by pushing the plug downward until it stops.
6. Turn on the P3 portable battery pack by pressing the power button (located on the top panel).

THE CHARGER IS NOW CHARGING THE P3.

TO STOP CHARGING

1. Do not turn off the P3's power switch while charging. To stop the charging process, you may remove the charge plug.
2. Unplug the charger harness from the P3 once it is fully charged.

TO USE THE P3:

1. Begin using your P3. You can pin the P3 handle upright to enable easier movement of the unit.
2. The Charger Box should always remain on while charging. Don't turn the charger box power button off while charging the P3 and do not turn off the P3 while charging.
3. The P3 will automatically shut down once the charger is finished. Auto shutdown occurs after 3 hours of idle time. The P3 can be turned off and back on again to reset this timer. The P3 should not be left with the switch turned on, even if the timer has shut down the battery.

OPERATING INSTRUCTIONS



1. Secure the P3 to the equipment that will be powered. The P3 has a lifting bar provided, but you may need additional methods to secure the P3 so it doesn't fall off the equipment once in motion.
2. Connect the P3 portable battery pack to the equipment: Use the appropriate connectors and cables to attach the charging terminals of the Portable Battery Pack to the forklift battery. The cables are industry standard (red = 24V, grey = 36V, blue = 48V), but the blue connector may have its key removed.
3. Take care to prevent the P3 from falling off equipment! A fall can severely damage a P3 and may make it unsafe and unusable. P3's damaged this way are also not covered under warranty.
4. Once finished powering equipment; shut down the equipment first. Next, disconnect the power from the equipment, and then turn off the P3.

MAINTENANCE & CARE

The system should be kept clean and free of debris and must not be washed down with flowing water.

Keep the system clean and dry. Wipe the P3 with a dry cloth if it becomes dirty.

TO ENSURE OPTIMAL PERFORMANCE, FOLLOW THESE MAINTENANCE TIPS:

Regular Inspection. Check for wear and tear on cables, connectors, the charger, and the P3 battery pack itself. **Contact service to replace any damaged parts immediately.**

Clean the P3 Battery Pack. Wipe down the unit with a damp cloth to remove dust and debris. Never immerse the P3 or spray it with any fluids.

Store in a Dry Location. When not in use, store the unit in a cool, dry area away from direct sunlight and heat sources.

Battery Health. Fully recharge the battery whenever possible to keep it in the best state of health. Avoid leaving the battery fully discharged.

Charger Box. Don't turn the charger power button off while charging. Don't set/leave the charger on the floor.

STORAGE

The system should be stored between 50% state-of-charge (SoC) and 100% SoC. Keep the battery switch in the Off (O) position when in storage, or at any time the P3 is not in use. Lithium battery systems self-discharge over time. The P3 will go from 100% SOC to 0% SoC in approximately half a year's duration, so if the system is in storage, **periodic maintenance charges should be performed** to keep the system from reaching 0% SoC. This should be done every 3 months if necessary.

Store batteries in a dry place at room temperature. For normal storage, the temperature should be between +10 °C and +25 °C (+50 °F and +77 °F) and never exceed +30 °C (+86 °F). The storage area should be clean, cool, and dry. Batteries should not be stored next to radiators or boilers, in shipping containers, in direct sunlight, or next to other sources of heat. Extremes of humidity (below 35% and above 95% relative humidity) for sustained periods should be avoided since they are detrimental to both batteries and packing.

By using the P3, you agree that you understand the contents of the Blue Line Portable Power Pack (P3) User Manual.

TROUBLE SHOOTING

Issue	Possible Cause	Solution
Battery pack won't turn on	No charge in battery pack or power issue	Charge the battery pack fully and ensure proper connection to the power source.
Charging takes longer than usual	Faulty charger	Check connection to charger, and check that the charger is on. Check the charger fuse. If the issue persists, contact customer support.
No lights on LED display	Connection issues or internal malfunction	Check all cables and connections. If the issue persists, contact customer support.

WARRANTY & SUPPORT

This product comes with a **1-YEAR LIMITED WARRANTY** from the date of purchase. The warranty covers defects in materials and workmanship under normal use.

WARRANTY EXCLUSIONS: Physical damage, misuse, or improper handling.

For warranty claims or customer support, please contact our customer service team at the details provided below.



608-927-6695



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For further assistance, please visit our website or reach out to our support team.



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