



INSTRUCTIONS FOR

JUMP STARTER POWER PACK LITHIUM-ION PHOSPHATE 12/24V 1200/600 PEAK AMPS

MODEL NO: **SL32S**

Thank you for purchasing a Sealey product. Manufactured to a high standard, this product will, if used according to these instructions, and properly maintained, give you years of trouble free performance.

IMPORTANT: PLEASE READ THESE INSTRUCTIONS CAREFULLY. NOTE THE SAFE OPERATIONAL REQUIREMENTS, WARNINGS & CAUTIONS. USE THE PRODUCT CORRECTLY AND WITH CARE FOR THE PURPOSE FOR WHICH IT IS INTENDED. FAILURE TO DO SO MAY CAUSE DAMAGE AND/OR PERSONAL INJURY AND WILL INVALIDATE THE WARRANTY. KEEP THESE INSTRUCTIONS SAFE FOR FUTURE USE.



Refer to instructions



Wear eye protection



Wear protective gloves



Electrical shock hazard



Warning corrosive substance



Warning: explosive material



Keep away from sources of ignition



Use in well ventilated areas



Keep in dry area
protect from rain

1. SAFETY

1.1. ELECTRICAL SAFETY FOR USE OF CHARGER

- WARNING!** It is the user's responsibility to read, understand and comply with the following electrical instructions:
You must ensure the risk of electric shock is minimised by the installation of appropriate safety devices.
An RCCB (Residual Current Circuit Breaker) should be incorporated in the main distribution board. We also recommend that an RCD (Residual Current Device) is used with all electrical products, particularly portable equipment which is plugged into an electrical supply not protected by an RCCB.
- ✓ You must also read and understand the following instructions concerning electrical safety.
The Electricity At Work Act 1989 requires all portable electrical appliances, if used on business premises, to be tested by a qualified electrician, using a Portable Appliance Tester (PAT).
- ✓ The Health & Safety at Work Act 1974 makes owners of electrical appliances responsible for the safe condition of the appliance and the safety of the appliance operator. If in any doubt about electrical safety, contact a qualified electrician.
You must ensure that you:
 - ✓ Inspect the Jump Starter, charger plug, cable and connector for wear and damage to ensure items are safe before connecting to the mains power supply. If worn or damaged **DO NOT** use.
 - ✓ Uncoil the cable between charger and the lamp.
 - ✗ **DO NOT** pull the charger plug from the mains socket by the lead.
- WARNING! DO NOT** use any other type of charger with this product, other than the supplied mains or car charger. Failure to observe this warning could result in injury and or fire and will invalidate the warranty.
- ✗ **DO NOT** try to take the charger plug apart.
- ✗ **DO NOT** use the charger plug to charge or power any other electrical item.
- ✗ **DO NOT** get the charger wet, or use in wet, damp conditions (for indoor use only).

1.2. BATTERY SAFETY

- WARNING!** To reduce the risk of burns or fire:
 - ✗ **DO NOT** attempt to open, disassemble, modify or service the battery pack.
 - ✗ **DO NOT** crush, puncture, short external contacts or dispose of in fire or water.
 - ✗ **DO NOT** expose to temperatures above 60°C (140°).
- ✓ Replace only with the battery pack designated for this product.
- ✓ Recycle or dispose of used battery as stipulated by local regulation.
- ✓ If the electrolyte in the cells gets on your skin, thoroughly wash with soap and water. If it gets in your eyes, rinse thoroughly with cool water and seek immediate medical attention.
- ✓ Ensure the internal battery is fully charged before initial use.
- ✗ **DO NOT** move/handle/use the Jump Starter when it is being charged.
- ✗ **DO NOT** leave battery in a discharged state, recharge battery immediately. Before storage, fully recharge the battery, subsequently recharge the battery at least once every six months of non-use.

- ▲ **DANGER! BE AWARE, LEAD-ACID BATTERIES GENERATE EXPLOSIVE GASES DURING NORMAL BATTERY OPERATION. FOR THIS REASON, IT VERY IMPORTANT TO READ AND FOLLOW THESE INSTRUCTIONS CAREFULLY, EACH TIME YOU USE THE JUMPSTARTER.**

Follow these instructions and those published by the battery and vehicle manufacturers, and the maker of any equipment you intend to use in the vicinity of the battery. Remember to review warning marks on all products and on engines.

- ❑ **WARNING! Modern vehicles contain extensive electronic systems.**
You are required to check with the vehicle Manufacturer, for any specific instructions regarding the use of this type of equipment on each vehicle. No liability will be accepted for damage / injury, where this product is not used in accordance with all instructions.

1.3. Personal Precautions

- ✓ Ensure there is another person within hearing range of your voice and close enough to come to your aid, should a problem arise when working near a lead-acid battery.
- ✓ Wear safety eye protection and protective clothing. Avoid touching eyes while working near battery.
- ✓ Have fresh water and soap nearby in case battery acid contacts skin, clothing or eyes.
- ✓ Wash immediately with soap and water if battery acid contacts skin or clothing. If acid enters eye, flush eye immediately with cool, clean running water for at least 15 minutes and seek immediate medical attention.
- ✓ Remove personal metallic items such as rings, bracelets, necklaces and watches. A lead-acid battery can produce a short-circuit current which is high enough to weld a ring or the like to metal, which would cause severe burns.
- ✓ Ensure hands, clothing (especially belts) are clear of fan blades and other moving or hot parts of engine, remove ties and contain long hair.
- ✗ **DO NOT** smoke or allow a spark or flame in the vicinity of battery or engine.

1.4. General Safety Instructions

- ✓ Familiarise yourself with the application and limitations of the Jump Starter as well as the potential hazards.
- ✓ Use the Jump Starter in the upright position only and ensure it is placed on a stable surface which will adequately support its weight.
- ✓ Keep tools and other items away from the engine and ensure you can see the battery and working parts of engine clearly.
- ✓ Keep children and unauthorised persons away from the working area.
- ✗ **DO NOT** allow power clamps to touch each other or to make contact with any metallic part of the vehicle.
- ✗ **DO NOT** cross connect power leads from Jump Starter to battery. Ensure positive (+/RED) is to positive and negative (-/BLACK) is to negative.
- ✗ **DO NOT** pull the cables or clamps from the battery terminals.
- ✗ **DO NOT** use the charger outdoors, or in damp, or wet locations and **DO NOT** operate within the vicinity of flammable liquids or gases.
- ✗ **DO NOT** use for a task for which it is not designed.
- ✓ When not in use, store carefully in a safe, dry, childproof location.
- ✓ Only use for starting vehicles with 12/24V systems. **DO NOT** use for other vehicles such as aircraft, ships etc.
- ✗ **DO NOT** use in place of a vehicle battery or as a battery charger.
- ✓ Use the jumper cable provided with this unit only.
- ✗ **DO NOT** Jump Start more than 3 times in a row. It could damage the unit by overheating. Give two minutes between attempts.
- ✓ **Remove the product from the vehicle battery within 30 seconds of Jump Starting. If not, it could lead to damage.**
- ✗ **DO NOT** modify or disassemble Jump Starter. Only a repair technician may repair this unit.
- ✗ **DO NOT** drop unit. If unit receives a sharp blow or is otherwise damaged in any way have it checked by a qualified technician.
- ✗ **DO NOT** use the unit to jump start a vehicle while charging the internal battery.

NOTE: This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.

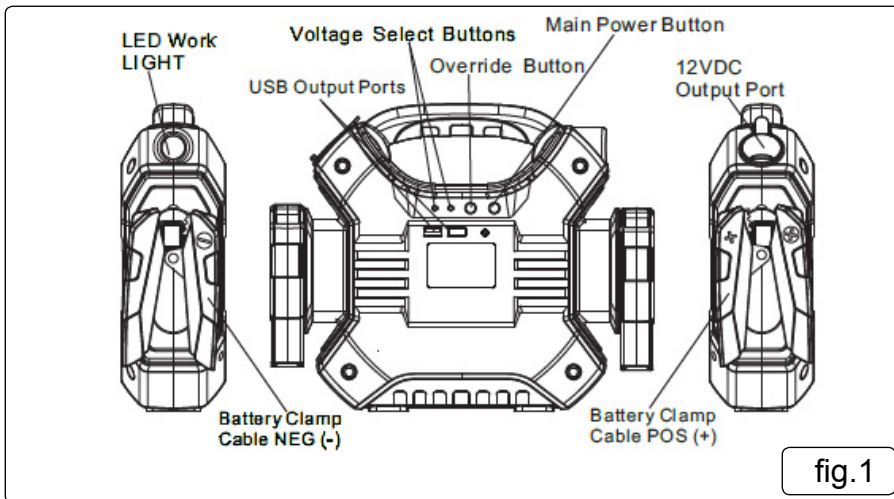
2. INTRODUCTION

Powered by lithium-ion technology and fully protected against reverse charging and overload. A dedicated 12/24V jump starter pack that benefits from being a compact, lightweight unit that also provides high amperage output. Capable of starting all 12V vehicles and up to 400-450HP, 24V, 4.5ltr light commercial vehicles. As well as being light Li-ion batteries have numerous advantages over lead acid, including a flat discharge curve. This ensures a greater and extended performance and holds the charge for up to five times longer with high energy density levels giving more battery power per gram. Includes an integral 3W work light for use at night. Fitted with a 32,000mAh @ 3.2V battery and a two USB (5V/1A & 5V/2A) outlets, this unit can also supply up to 10 full charges for smartphones and mp3 players or one full charge for your tablet computer. Includes a 12V port to be used with accessory socket adaptor supplied and three mobile phone or tablet charging cables. The unit can act as a memory saver during vehicle diagnostics (also requires model no.VS2073, for details visit www.sealey.co.uk.)

3. SPECIFICATIONS

Model No..... SL32S
 Starting Current:..... 12V-600A, 24V-300A
 Voltage:..... 12V/24V switchable
 Auxiliary Output:..... USB (5V/1A & 5V/2A), 12V Port
 Cable & Clamp Length: 565mm cable (clamp - 135mm)
 USB cable: 227mm
 Size (W x D x H):..... 292 x 233 x 79mm
 Weight:..... 2.7kg
 Maximum Starting Capacity: 12V; All Petrol and Diesel,
 24V; 400-450HP
 Capacity: ..32,000mAh@3.2V, 800mAh@12V, 400mAh@24V
 Peak Amps:..... 12V-1200A, 24V-450A
 Light Output: 3W

4. OPERATION



- 4.1. **Check battery charge level**
- 4.1.1. Press main power button, the digital display will show the battery's percent of charge.
NOTE: If the percent of charge is below 20%, the display will show "LOW BATTERY RECHARGE NOW." You need recharge the jump starter before use.
- 4.2. Charging internal battery
- WARNING!** Always charge on a non-flammable surface in a well-ventilated area.
NOTE: During charging, the display will reflect the current charge. The display will show "100%" once the internal battery is fully charged.
- 4.2.1. Insert the adapter's charging connector into the Charging Input Socket on the control panel of the Jump starter.
- 4.2.2. Plug the charger into a power socket and turn on power.
- 4.2.3. Digital display will show "CHARGING BATTERY".
- 4.2.4. The display will show "100%" once the internal battery is fully charged.
- 4.2.5. When charging is complete, unplug the wall charger from it's outlet and disconnect it from the jump starter.
- 4.3. **Using the LED work light**
- 4.3.1. Press and hold the Main Power Button about 2 seconds to turn the light on. Screen will show "LIGHT".
- 4.3.2. For a flashlight, press the Main Power Button again. Screen will show "FLASH".
- 4.3.3. For an SOS signal, press the Main Power Button again. Screen will show "SOS".
- 4.3.4. To turn off the light, press the Main Power Button again.
- 4.4. **Running/Charging USB Devices**
- 4.4.1. The jump starter has two standard USB ports to 3A at 5V DC.
- 4.4.2. Press the Main Power Button. Screen will show "USB 12V ON"
- 4.4.3. Plug the USB connector into the USB output port on the front panel of the jump starter.
- 4.4.4. Plug the appropriate connector on the USB cable into the device.
- 4.4.5. Turn device on, if necessary.
- 4.4.6. When finished using, turn off the device and unplug the device from the USB cable.
- 4.5. **Running/Charging DC Appliances 12V DC output:**
- The standard cigarette lighter socket provides continuous 12V output, at Maximum 10Amp load, to power up 12V DC devices such as inflator, cooler, OBDII memory saver, etc.
- 4.5.1. Verify the Jump starter is fully charged and recharge as needed.
- 4.5.2. Make sure that the appliance to be powered is turned off and it's power requirement does not exceed 10A.
- 4.5.3. Plug the appliance into the 12V Cigarette lighter socket.
- 4.5.4. Turn on the appliance.
- 4.5.5. When finished using, turn off and unplug the appliance.
- 4.5.6. Recharge the jump starter.
- 4.6. **Jump Start a Vehicle**
- NOTE:** To avoid damage to the vehicle's electrical system, do not use the jump starter on a vehicle that has no battery installed.
- 4.7. **Intelligent Diagnosis**
- WARNING! DO NOT PRESS OVERRIDE BUTTON AS IT WILL CAUSE PERMANENT DAMAGE TO VEHICLES' ELECTRICAL SYSTEM.**
 - WARNING! DO NOT TOUCH POSITIVE AND NEGATIVE BATTERY CLAMPS TOGETHER.**
- 4.7.1. Verify the Jump starter is fully charged and recharge as needed.
- 4.7.2. Turn off the vehicle ignition switch and all accessories (lights, radio, climate control, etc.)
- 4.7.3. Connect the red Positive Battery Clamp to vehicle's positive battery terminal. Then connect the black Negative Battery Clamp to the vehicle's negative battery terminal.
- 4.7.4. When correct connection has been made, the screen will show "12V JUMPSTARTREADY" or "24V JUMPSTARTREADY"
- 4.7.5. Crank the engine.
- 4.7.6. If the vehicle does not start after **5 to 8 seconds**, stop and try again.
- 4.7.7. After the vehicle is started, remove the black Negative Battery Clamp first, and then the red Positive Battery Clamp.
- 4.7.8. Recharge the jump starter.
- WARNING!** When the unit sends out a buzzer sound and the screen shows "OUTPUTS LOCKED" "SHORT CIRCUIT" and "CHECK ALL CONNECTIONS" Clamps are touching, You need to disconnect clamps immediately. Correct Clamp connections. Turn unit back on and resume operation.
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If the unit sends out buzzer sounds, and the screen shows "WARNING CLAMPS REVERSED CHECK ALL CONNECTIONS ". The polarity is reversed. You need to disconnect the unit and reverse the clamps. Correct Clamp connections. Turn unit back on and resume operation.

4.8. Using The Override Button

WARNING! DO NOT use Override Button unless the jump starter failed to detect vehicle's battery working voltage.

NOTE: When vehicle's battery is completely dead, the jump starter will not detect battery voltage automatically. You will need to determine the working voltage and "override" the jump start.

- 4.8.1. Determine the voltage of the battery by referring to the vehicle owner's manual and make sure that the output voltage of the jump starter is correct.
- 4.8.2. Confirm the correct voltage of electrical system you are going to jump-starting is 12V or 24V.
- 4.8.3. Turn off the vehicle ignition switch and all accessories (lights, radio, climate control, etc.)
- 4.8.4. Connect the red Positive Battery Clamp to vehicle's positive battery terminal. Then connect the black Negative Battery Clamp to the vehicle's negative battery terminal.
- 4.8.5. Press the Override Button.
- 4.8.6. Press and hold the correct voltage button that matches your vehicle for about 2 seconds.
- 4.8.7. Screen will show "JUMP START READY", at the voltage you have chosen.
- 4.8.8. Crank the engine within 30 seconds.
- 4.8.9. If the vehicle does not start after 5 to 8 second, stop and try again.
- 4.8.10. After the vehicle is started, remove the black Negative Battery Clamp first, then the red Positive Battery Clamp.
- 4.8.11. Recharge the jump starter.

5. TROUBLESHOOTING

Problem	Possible Causes	Likely Solutions
Unit beeps and Screen shows "OUTPUT LOCKED"	Battery Clamps are connected backwards (reverse polarity) or there is a short circuit	Disconnect clamps immediately. Correct Clamp connections. Turn unit back on and resume operation.
Unit failed to jump start vehicle.	1) Battery Clamp Cable malfunctions. 2) Low battery 3) Internal components damaged.	1) Repair or replace clamps or cord. 2) Recharge the jump starter to full battery level. 3) Check with your local stockist.*Service must be performed only by a qualified technician.
Screen showed "OUTPUT LOCKED"and kept flashing.	You attempted to jump starting for more than 3 times within short time.	The jump starter turned to protection mode in case of overheating. With for two minutes for battery to cool. Then resume operation.
Screen turned to Blank. No message shown	1) USB output or 12V DC output overload or there is a short circuit. Protection is tripped. 2) Low battery	1) Press Main Power Button to unlock the unit and resume operation. 2) Recharge the jump starter

Parts support is available for this product. To obtain a parts listing and/or diagram, please log on to www.sealey.co.uk, email sales@sealey.co.uk or telephone 01284 757500.



ENVIRONMENT PROTECTION

Recycle unwanted materials instead of disposing of them as waste. All tools, accessories and packaging should be sorted, taken to a recycling centre and disposed of in a manner which is compatible with the environment. When the product becomes completely unserviceable and requires disposal, drain any fluids (if applicable) into approved containers and dispose of the product and fluids according to local regulations.



WEEE REGULATIONS

Dispose of this product at the end of its working life in compliance with the EU Directive on Waste Electrical and Electronic Equipment (WEEE). When the product is no longer required, it must be disposed of in an environmentally protective way. Contact your local solid waste authority for recycling information.



BATTERY REMOVAL

The battery should be removed from this product by a qualified technician.

Under the Waste Batteries and Accumulators Regulations 2009, Jack Sealey Ltd are required to inform potential purchasers of products containing batteries (as defined within these regulations), that they are registered with Valpak's registered compliance scheme. Jack Sealey Ltd's Batteries Producer Registration Number (BPRN) is BPRN00705.

Note: It is our policy to continually improve products and as such we reserve the right to alter data, specifications and component parts without prior notice.

Important: No Liability is accepted for incorrect use of this product.

Warranty: Guarantee is 12 months from purchase date, proof of which is required for any claim.

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