



## Instructions for: 12V ROADSTART EMERGENCY POWER PACK

Model No:  
**S0827**

Thank you for purchasing a Siegen 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:** BEFORE USING THIS PRODUCT, PLEASE READ THE INSTRUCTIONS CAREFULLY. MAKE CAREFUL NOTE OF SAFETY INSTRUCTIONS, WARNINGS AND CAUTIONS. THIS PRODUCT SHOULD ONLY BE USED FOR ITS INTENDED PURPOSE. FAILURE TO FOLLOW THESE INSTRUCTIONS MAY CAUSE DAMAGE AND/OR PERSONAL INJURY AND WILL INVALIDATE THE WARRANTY. RETAIN THESE INSTRUCTIONS FOR FUTURE USE.

### 1. INTRODUCTION & SPECIFICATION

Composite case with battery cable storage and carry handle. LED battery condition and charge indicators. Features over-charge protection preventing damage to the battery. Fitted with 12Volt power socket that will accept any 12Volt device fitted with a cigarette lighter type plug. Supplied with mains charger and adaptor for in-car charging.

**IMPORTANT: READ SAFETY INSTRUCTIONS BEFORE ATTEMPTING TO USE THE ROADSTART.**

Built-in Battery ..... Sealed, maintenance free, re-chargeable.  
DC Output..... 12 volts.  
Boost Rate ..... 850 amps (peak).  
Cold Cranking Current .. 220 amps.  
Weight..... 4.1kg.  
Cable length..... 0.48m



### 2. SAFETY INSTRUCTIONS



#### **⚠ DANGER! - RISK OF EXPLOSIVE GASES.**

**WORKING IN THE VICINITY OF A LEAD-ACID BATTERY IS DANGEROUS. BATTERIES GENERATE EXPLOSIVE GASES DURING NORMAL BATTERY OPERATION. FOR THIS REASON, IT IS VERY IMPORTANT TO READ AND FOLLOW EXACTLY THESE INSTRUCTIONS, EACH TIME YOU USE THE S0827.**

**IMPORTANT:** To reduce the risk of a battery explosion, follow these instructions and those published by the battery manufacturer and the manufacturer of any equipment you intend to use in the vicinity of the battery. Remember to review warning marks on all products and on engines.

#### 2.1. PERSONAL PRECAUTIONS

- ✓ Ensure there is another person within hearing range, or close enough to come to your aid should a problem arise, when working near a lead-acid battery.
- ✓ Have fresh water and soap nearby in case battery acid contacts skin, clothing or eyes.
- ✓ Wear safety eye protection and protective clothing. Avoid touching eyes while working with a battery.
- ✓ 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 high enough to weld a ring or the like to metal, which may cause severe burns.

#### 2.2. OTHER IMPORTANT S0827 SAFETY INSTRUCTIONS

- ✓ Familiarise yourself with the applications, limitations and potential hazards of the Roadstart.
- ✓ Keep the unit in good working order and condition (take immediate action to repair or replace damaged parts).
- ✓ Use only recommended parts. To use unapproved parts may be dangerous and will invalidate your warranty.
- ✓ The Roadstart must only be opened and checked by qualified service personnel. **DO NOT** disassemble the S0827 for any reason.
- ✓ Keep children and unauthorised persons away from the work area.
- ✓ Keep work area clean and tidy and free from unrelated materials. Ensure that there is adequate lighting.
- ✓ If the S0827 receives a sharp knock or blow, it must be checked by a qualified service agent before being used.
- ✓ When not in use re-charge every two to three months.
- x **DO NOT** smoke or allow a spark, or flame in the vicinity of the battery or engine.
- x **DO NOT** drop any metal tool onto the battery as it may spark or short circuit the battery, which could cause an explosion.
- x **DO NOT** use S0827 to recharge dry cell batteries that are commonly used with home appliances. These batteries may burst and cause injury to persons and/or damage to property.
- x **DO NOT** charge or boost a frozen battery.
- x **DO NOT** pull or carry the S0827 by its cables and do not pull the negative and positive clamps from the battery terminals.
- x **DO NOT** operate in vicinity of flammable liquids or gases.
- x **DO NOT** recharge the S0827 with plugs, cables or attachments that are damaged. Replace such items immediately.
- x **DO NOT** use this product to perform a task for which it is not designed.
- x **DO NOT** store the unit in damp or wet locations or where the temperature may exceed 50°C.
- x **DO NOT** submerge the unit in water.
- x **DO NOT** use whilst under the influence of drugs, alcohol or intoxicating medication.
- x **DO NOT** leave the S0827 in a totally discharged state for an extended period of time as this may result in permanent damage to the unit.
- x **DO NOT** cross-connect the power leads from the Roadstart to the battery. Ensure that positive is to positive and negative is to negative.
- ✓ Ensure that the unit is fully charged before storage.
- ✓ Store upright in a cool dry, childproof location.

### 2.3. ELECTRICAL SAFETY

- ⚠ **WARNING!** It is the user's responsibility to check the following:  
**You must** check the AC adaptor to ensure that it is safe before using. **You must** inspect the power supply lead, plugs and all electrical connections for wear and damage. **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 recommend that an RCD (Residual Current Device) is used with all electrical products. It is particularly important to use an RCD with portable products that plug into an electrical supply not protected by an RCCB. If in doubt consult a qualified electrician. You can obtain a Residual Current Device through your Sealey dealer. **You must** read and understand instructions concerning electrical safety.
- 2.3.1. The **Electricity At Work Act 1989** requires all portable electrical appliances, if used on business premises, to be tested by a qualified person, using a Portable Appliance Tester (PAT), at least once a year.
- ⚡ 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.
- 2.3.3. Ensure that the insulation on all cables and the product itself is safe before connecting to the mains power supply.
- 2.3.4. Ensure that cables are always protected against short circuit and overload.
- 2.3.5. Regularly inspect power supply, leads, plugs for wear and damage and power connections to ensure that none is loose.
- 2.3.6. Ensure product voltage is the same as power supply to be used and check that all fused plugs are fitted with the correct capacity fuses.
- 2.3.7. **DO NOT** pull the AC adaptor plug from the mains socket by the cable.
- 2.3.8. **DO NOT** use the AC adaptor if damaged or if the lead is worn. Replace damaged items immediately.
- 2.3.9. **DO NOT** disassemble the AC adaptor. There are no user-serviceable items inside the unit.

## 3. CHARGING INSTRUCTIONS



**WARNING! YOU MUST FOLLOW SAFETY INSTRUCTIONS**

### 3.1. Reading the LED charge indicators

To check the battery charge, press the red button (fig.1A), the LEDs (fig.1C) will illuminate to show the level of charge.

- If the green LED illuminates the Roadstart is ready for use
- If the yellow LED illuminates the unit is about 50% charged.
- If the red LED illuminates the unit requires recharging

### 3.2. Charging the S0827

**Note:** When you receive your S0827 from new, it will be partially charged from the factory, it is important that the unit is **FULLY CHARGED FOR 12 HOURS BEFORE FIRST USE**, even if the battery lights indicate a full charge. This initial charge pre-conditions the battery. Failure to follow this procedure may permanently damage the battery.

- ⚠ **WARNING!** Use supplied adaptor, cables and connectors. Unauthorised parts may damage the unit and will invalidate your warranty. Ensure you strictly apply the safety instructions as stated in Section 2.

#### 3.2.1. To recharge with the AC/DC charging adaptor:

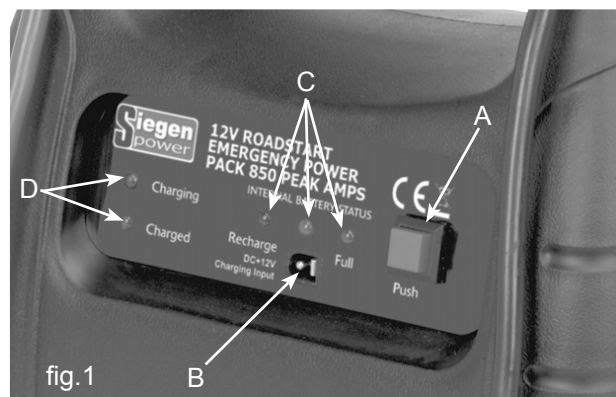
Plug the AC/DC charger cord into the input socket (fig.1B) of the unit and then connect charger to a 230 volt AC socket. Switch on the power supply to the charger, the red charging LED will illuminate, continue charging until the green charged LED illuminates (fig.1D).

#### 3.2.2. To recharge with the DC charging cable:

**With the vehicle engine running**, plug the DC charging cable into the vehicle cigarette lighter socket and then the other end into the input socket (fig.1B) of the unit. The unit will be charged by the vehicle alternator. **DO NOT** leave the discharged unit connected when the engine is not running. To do so will discharge the vehicle battery. When charging is taking place the red charging LED (fig.1D) will be illuminated and the green charged LED will illuminate once the unit is fully charged.

**Note:** Avoid allowing the S0827 to become completely discharged, as this may cause permanent damage to the battery.

- ⚠ **WARNING!** **DO NOT** use any of the Roadstarts functions while the unit is charging.



## 4. OPERATING INSTRUCTIONS



**WARNING! YOU MUST FOLLOW SAFETY INSTRUCTIONS**

### 4.1. Use as a jump start supply

**Note:** Once the Roadstart unit is charged the clamps are live at all times.

- Put hand brake on and place in neutral gear ("Park" if automatic transmission).
- Turn ignition and electrical accessories off.
- Wear protective safety glasses and clothing.
- Attach the positive (RED +) clamp to the positive terminal on the flat battery (for a negative ground system). Ensure connecting points are clean.
- Attach the negative (BLACK -) clamp to the engine block or frame (ground) of the vehicle, **DO NOT** connect to the battery negative terminal. Ensure that the cables are not near moving engine parts, such as fan and are clear of the carburettor/injection system, fuel lines etc.
- Make sure that no one is standing near the battery. Start the engine.
- Once the vehicle has started, disconnect the negative (BLACK -) clamp first and stow on unit (fig.2).
- Then disconnect the positive (RED +) clamp and stow.

**Note:** When starting a vehicle crank the engine in 5 to 6 second bursts, if vehicle does not start after 2 or 3 attempts, **DO NOT** continue to crank. Let the Roadstart's internal battery cool for three minutes before attempting to start vehicle again. Failure to do so may damage the unit.

Cable Tidy



fig.2

#### 4.2. Use as a 12 Volt DC power supply

- 4.2.1. The Roadstart may be used as a portable power source for 12V DC accessories equipped with a male lighter plug - portable light, coffee maker, portable TV etc.  
The two DC outlets (fig.3) one located at each end, are protected by a 15 amp internal circuit breaker. If the circuit breaker is activated, disconnect the accessory and reset using the button on the rear of the unit (fig.2A).

**DO NOT** re-connect that particular accessory until the cause of the overload has been determined and rectified.

### 5. MAINTENANCE

- 5.1 All batteries lose charge with time, an AC recharge is recommended every two to three months when not in frequent use.
- 5.2 Clean the unit exterior with a soft cloth moistened with a water and mild detergent solution. **DO NOT** use solvents or other chemical cleaners and **DO NOT** submerge the unit in water.
- 5.3 Store upright in a cool dry, childproof location.



fig.3

### 6. TROUBLESHOOTING

THE PROBLEM	THE SOLUTION
Unit has been recharged for 12 hours but there is no change in status of LEDs.	Check charger to see if it is charging. Charger should be warm. Check all wire connections.
Charger works well but still no change in status of LEDs.	Possible defective internal battery.
No LEDs comes on, but when the AC adaptor is plugged into the Roadstart, they do.	The internal battery of the Roadstart needs to be replaced.
Roadstart is fully charged but has no power.	Check where the cables join the jaws on the Roadstart clamps. Make sure they are well crimped.
When connecting an accessory through the outlet socket there is no power.	Accessory is drawing more than 12 amps and causing the cut-out to activate. Allow to cool and reset and check accessory current draw.

### 7. QUESTIONS & ANSWERS

QUESTION	ANSWER
How many jump starts can a fully charged Roadstart do before needing to be recharged?	Between 1 and 20 depending upon operating factors such as temperature, general condition of the vehicle, engine type and size.
Can the Roadstart be recycled?	Yes, in accordance with local authority regulations.
What is the ideal in-use storage temperature of the Roadstart?	Room temperature. The Roadstart will also operate at temperatures below zero, its power however will be lessened. Intense heat will activate self-discharge.
I have a regular 10 amp battery charger, can I use it to recharge the Roadstart?	No. Only the supplied adaptor and charger can be used.
Is the Roadstart fool proof?	No. All jump starting instructions must be followed carefully.
Can I replace the internal battery?	Yes, but note that the battery is not covered by warranty as it is a consumable item.

**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 product.

**WARRANTY:** Guarantee is 12 months from purchase date, proof of which will be required for any claim.



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