



SSL-3736

Single-Bay Battery Charger Operator Manual



Sunoptic Technologies®
6018 Bowdendale Avenue
Jacksonville, FL 32216 USA

Customer Service: 904 737-7611
Toll Free 877-677-2832



RMS UK, Ltd.
28 Trinity Road
Nailsea, Somerset BS48 4NU
United Kingdom
TEL: 01275 858891

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1. INTENDED USE

The SSL-3736, Single-bay battery charger is intended to charge 2054-style, smart, lithium battery packs supplied by Sunoptic Technologies®.

2. WARNINGS

- Upon initial receipt and before each use, inspect each battery and charger for damage. Do not attempt to charge a damaged battery. Do not attempt to operate the charger if the cord and/or plug appear to be damaged, such as cuts, bent pins or contacts, and/or cracks.
- Do not expose the charger to heat, fire, or mechanical shock.
- Place the charger in a cool spot, away from any heat sources.
- Do not use this equipment in the presence of a mixture containing flammable anesthetic and/or air or oxygen or nitrous oxide.
- Do not sterilize, immerse, or expose the charger, or power supply to water, solvents, lubricants, or other chemicals to clean the charger unless otherwise directed. Do not allow water to collect in the bays or on top of the charger. Do not allow water to enter the power connection on the back of the charger. Keep clean and dry.
- Do not short-circuit, crush, open, shred, incinerate, or dismantle the charger or the power supply brick.
- The charger does not have serviceable parts. Contact Sunoptic Technologies® for replacement instructions.
- Do not modify or change the power cord. The power cord should be plugged into a hospital grade outlet.
- Do not bend the power cord forcibly or place a heavy object on it. This will damage the cord and may cause fire or electrical shock.
- Use only the charger and charger accessories as intended.
- Do not operate the charger at a different voltage than what is listed on the unit and in this Instructions for Use.
- Unplug the power supply from the wall socket during extended periods on non-use. Disconnect the power plug by pulling from the plug housing and not the cord.
- If the charger or the battery generates excessive heat, becomes discolored, emits an odor, or leaks disconnect the power cord from the wall socket immediately.
- Do not repeatedly insert a fully charged battery into the charger. Due to the high initial charge, the battery may become overcharged, which could cause damage to the battery and/or charger.
- This battery charger may not be located in the vicinity of a patient. In accordance with EN60601-1-1, the horizontal distance must be at least 1.5m (4.9ft.).

3. TECHNICAL SPECIFICATIONS

Item	Specification
Input	19 - 26V $\overline{\text{---}}$ 2.8A max
Output	0-17.4V $\overline{\text{---}}$ 4.8A max
Operating Temperature	32°F to 104°F (0°C to 40°C)
Storage Temperature	14°F to 158°F (-10°C to 70°C)
Operating Humidity	10% to 90%
Storage Humidity	5% to 95%
Dimension (without battery adaptor)	(LxWxH) 4.7in x 2.5in x 1.7in
Weight (without battery adaptor)	0.24lbs
Regulatory Approvals	UL listed and CE
Water Resistant	Not Protected Equipment, IPX0

4. BATTERY CHARGING INSTRUCTIONS

Place the charger on a stable surface. Plug the output connector of the external AC/DC power supply into the DC input located on the rear of the charging station. Then plug the external AC/DC power supply into an AC outlet.

The charge process will start after inserting a battery pack into the slot after a battery recognition and initialization. Leave the battery in the slot until the indicator light turns green. The battery is fully charged and is ready for use. See Table 1 for a legend of the LED indicator.



Figure 1. 3736- series Charger

LED Indicator (1)	Charging Condition
One time Red/Orange/Green	Self test; Charger is ready for use
Red/Green blinking	The battery was not recognized as a Smart Battery. Either a conventional battery is inserted or an extremely discharged Smart Battery. If it is a Smart Battery, it will be reactivated within 15 minutes. If this is not the case, the LED will light red – see below.
Orange blinking	The battery is currently being calibrated
Orange light	The inserted battery is the correct type and is currently being charged.
Green light	The battery is fully charged and can be removed for use.
Red blinking	The battery is too hot or too cold to be charged without damage. If the battery is too cold, it will be charged as soon as it has warmed up sufficiently. If the battery is too hot, it should be removed to cool down.
Red light	Either: <ul style="list-style-type: none"> • The battery is badly damaged and must be replaced, or • It is a conventional battery which cannot be recharged.

*Table 1. LED Indicator Legend
Refer to Figure 1 for location of indicator*

NOTE:

- The unit will become warm during normal operation. This does not indicate a malfunction.
- Prevent metallic objects from coming into contact with the metal parts of the DC plug of the power supply. If this happens, a short may occur and the unit may be damaged.
- Ensure the battery has proper orientation before insertion. Do not attempt to force a battery into the slot as this may damage the contacts.
- Try to recharge batteries once they are fully depleted. This will allow the charger to more accurately calculate capacity and exact charging requirements.

5. CLEANING INSTRUCTIONS

- Disconnect the Charger from the power source.
- Clean the exterior of the charger with a cloth that has been dampened (not dripping) using a hospital disinfectant. Follow applicable hospital protocols during cleaning and dry immediately.

6. DISPOSAL/RECYCLE

- In accordance with the European Waste from Electrical and Electronic Equipment (WEEE) directive, we encourage our customers to recycle this product whenever possible. Disposal of this unit must be performed in accordance with the applicable local environmental regulations.
- In the US a list of recyclers in your area can be found at: <http://www.eiae.org/>.
- Please contact our Repair Department to issue a return authorization to return product to manufacturer at the end of product life.

7. TROUBLESHOOTING

SYMPTOM	POSSIBLE CAUSES/SOLUTIONS
Battery not charging	<ul style="list-style-type: none">• Ensure charger power cord is plugged in to the AC power outlet.• Ensure DC connector is plugged into the back of the charger• Ensure battery is properly seated in the charger bay.• If repeated attempts to charge the battery have failed, the battery may be faulty. Replace the battery.• The charger may have a faulty power cord and/or power brick. Replace the power cord and/or power brick.
Charger LED indicator not working	<ul style="list-style-type: none">• Ensure charger power cord is plugged in to the AC power outlet.• Ensure battery is properly seated in the charger bay.• The charger may have a faulty power cord and/or power brick. Replace the power cord and/or power brick.







8. LIMITED WARRANTY

Your single-bay battery charger carries a 3-years warranty from the date of shipment on workmanship and all defects of material except batteries. Should your product prove to have such defects within three years from the date of shipment, **Sunoptic Technologies®** will repair or replace the product or component part without charge. Should your single-bay battery charger need servicing under this warranty, please contact **Sunoptic Technologies®** for return authorization documentation. You should carefully pack product in a sturdy carton and ship it to the factory. Please include a note describing the defects, your name, telephone number and a return address. Warranty does not cover equipment subject to misuse, accidental damage, and normal wear and tear. This warranty gives you specific legal rights and you may also have other rights that vary from state to state.

POST WARRANTY REPAIRS: You may return your product(s) for repair, shipping prepaid to the factory. Your product will be inspected and an estimate of repair charges will be submitted to you for approval. Payment must be received before repairs are completed.

- In the U.S call: 877 667-2832 (toll free)
- Customer Service 904 737-7611

9. SYMBOLOGY

GRAPHIC	DESCRIPTION
	Indicates suitability for direct current only.
	Caution, consult accompanying documents
	Certifies that the electromagnetic interference from the device is under limits approved by the Federal Communications Commission.
	Consult Instructions for Use
	CE mark
	Not for disposal in general waste