

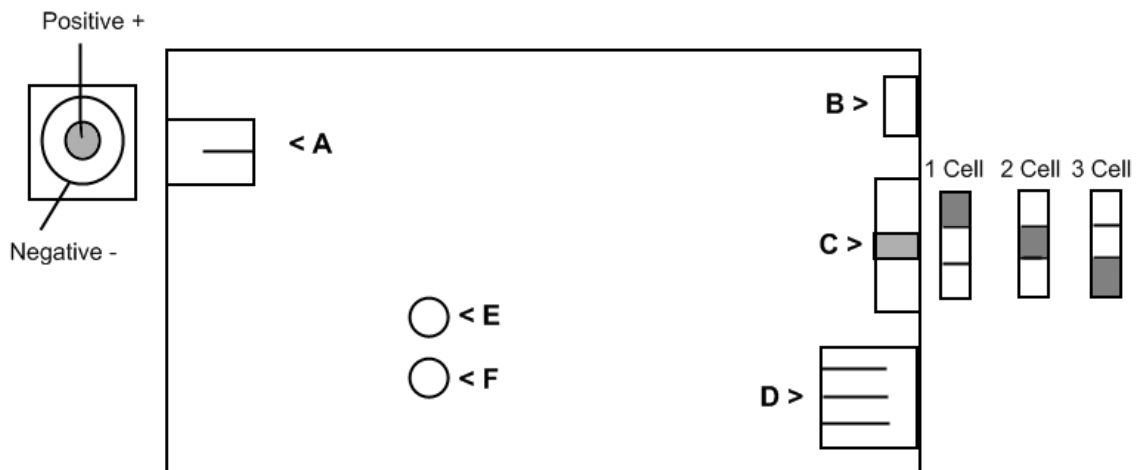
Operating Manual

Losi (LOSB9603) Intelligent 1- to 3-Cell Charger Model: LE3000

Features:

- Microprocessor-controlled for constant voltage and limited current resulting in optimal battery performance
- Selectable number of cells from 1 to 3
- Seven (7) selectable charge rates from 100–2000 mA
- Alarmed protection for:
 - Reverse voltage connection
 - Short circuit
 - Incorrect charge rate
 - Charger temperature too high
 - Cell voltage below 2V

Physical Overview:



A. DC Input

Connection for a 12V car battery or hobby grade power supply. Input voltage should be between 10–15V.

B. DC Output Wires

For connection to the battery to be charged (Connector is JST Male).

C. Cell Selection

3-Position switch located on the side of the charger. Reference above diagram. Sliding the switch upwards towards "B" would be for One Cell Charging, the Middle position is 2 Cell Charging, and the Bottom setting for 3 Cell Charging.

D. Charge Rate Selection

3-Position DIP switch provides the ability to choose appropriate charge current. Chart provided later with possible settings defined.

E. Red LED

Charging Indicator

F. Green LED

Full Charge Indicator

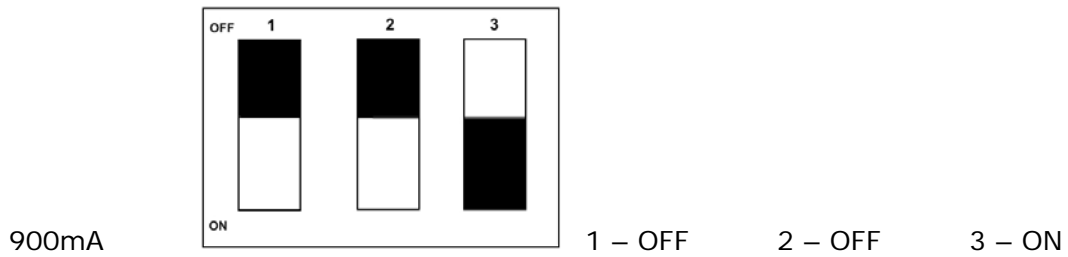
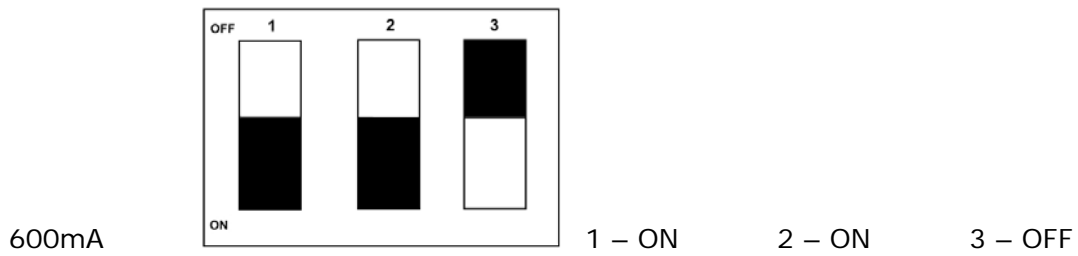
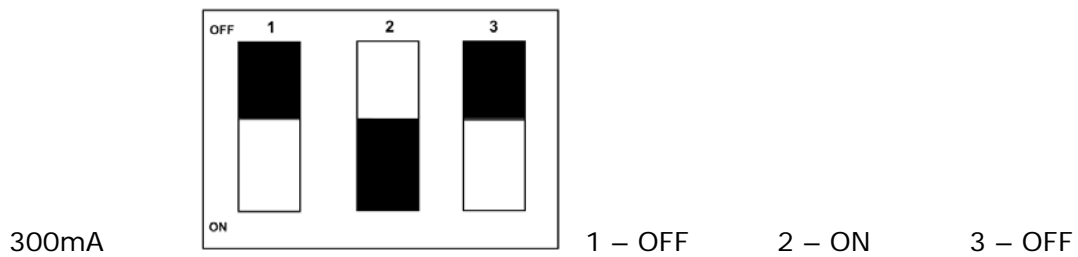
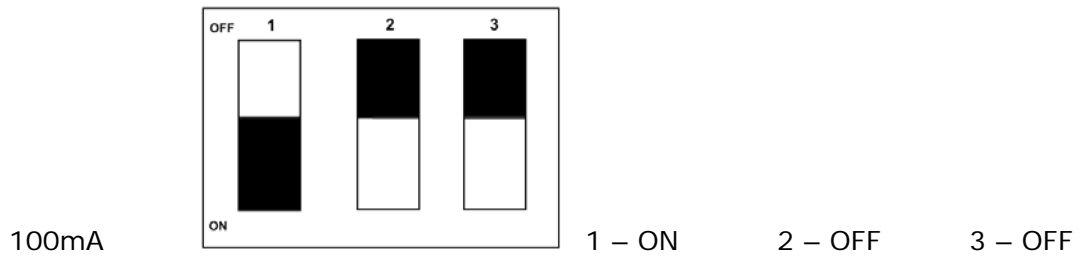
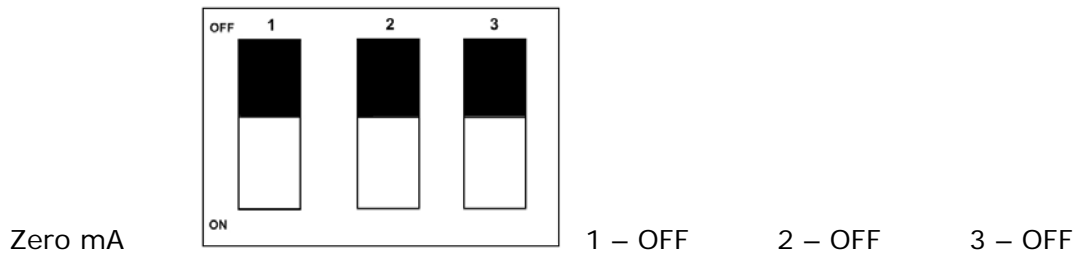
Operational Process:

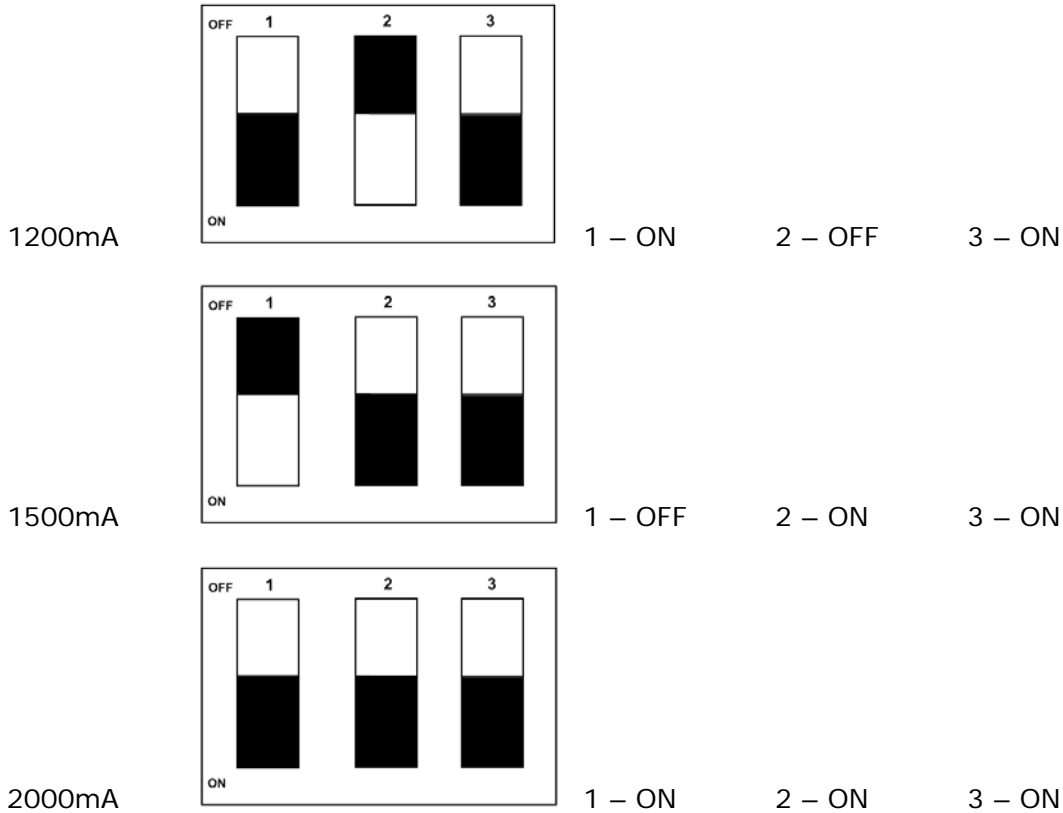
1. Connect the charger to DC power supply (DC10–15V). The Green LED will flash. If the Red LED and Green LED are off, please check the power connection polarity or that power is being supplied.
2. Confirm the Cell Selection setting: One, Two, or Three Cell configuration to be charged.
3. Select the Charging Current according to the battery capacity. You should not charge at more than 1C (1x capacity) or fire may result. For example, if you are charging a 1400mAh Li-Po battery, then select the 1200 setting and not the 1500 setting.
4. Connect the battery to the charger. If you notice both LED's flashing, there is a problem with the power supply, polarity, or the battery voltage is too low to charge (which indicates the battery may be damaged). If both LED's are ON solid, then check that the Charging Current mAh is not set to zero (0).
5. The charger's Red LED is now on. If the Red LED is flashing, this indicates pre-charging; if the Red LED is ON solid, this indicates normal charging.

Note: Pre-charging occurs if the battery voltage is too low as determined by the charger; it will then slowly increase voltage, automatically switching to normal charge.

6. When the Green LED comes ON, your battery is fully charged. Disconnect charger from the battery.

Charging Rate Selection Combinations:





LED Status:

LED Status	Description
RED OFF, GREEN OFF	Input power polarity problem or no power to the charger
RED OFF, GREEN Flash	No battery connected
RED OFF, GREEN ON	Fully charged battery
RED ON, GREEN OFF	Charge in-progress
RED Flash, GREEN Flash	Alarm
RED ON, GREEN ON	Charge rate is zero (0) mA, or Cell number error

Cautions / Precautions:

- Input jack (DC input) must not be connected to AC power
- DC input must be 10–15V, but not more than 15V or fire may result
- Before charging, check battery type for Li-Po or Lithium, and number of cells.

Warranty Period:

Exclusive Warranty- Horizon Hobby, Inc., (Horizon) warrants that the Products purchased (the "Product") will be free from defects in materials and workmanship at the date of purchase by the Purchaser.

Limited Warranty

(a) This warranty is limited to the original Purchaser ("Purchaser") and is not transferable. REPAIR OR REPLACEMENT AS PROVIDED UNDER THIS WARRANTY IS THE EXCLUSIVE REMEDY OF THE PURCHASER. This warranty covers only those Products purchased from an authorized Horizon dealer. Third party transactions are not covered by this warranty. Proof of purchase is required for warranty claims. Further, Horizon reserves the right to change or modify this warranty without notice and disclaims all other warranties, express or implied.

(b) Limitations- HORIZON MAKES NO WARRANTY OR REPRESENTATION, EXPRESS OR IMPLIED, ABOUT NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OF THE PRODUCT. THE PURCHASER ACKNOWLEDGES THAT THEY ALONE HAVE DETERMINED THAT THE PRODUCT WILL SUITABLY MEET THE REQUIREMENTS OF THE PURCHASER'S INTENDED USE.

(c) Purchaser Remedy- Horizon's sole obligation hereunder shall be that Horizon will, at its option, (i) repair or (ii) replace, any Product determined by Horizon to be defective. In the event of a defect, these are the Purchaser's exclusive remedies. Horizon reserves the right to inspect any and all equipment involved in a warranty claim. Repair or replacement decisions are at the sole discretion of Horizon. This warranty does not cover cosmetic damage or damage due to acts of God, accident, misuse, abuse, negligence, commercial use, or modification of or to any part of the Product. This warranty does not cover damage due to improper installation, operation, maintenance, or attempted repair by anyone other than Horizon. Return of any goods by Purchaser must be approved in writing by Horizon before shipment.

Damage Limits:

HORIZON SHALL NOT BE LIABLE FOR SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES, LOSS OF PROFITS OR PRODUCTION OR COMMERCIAL LOSS IN ANY WAY CONNECTED WITH THE PRODUCT, WHETHER SUCH CLAIM IS BASED IN CONTRACT, WARRANTY, NEGLIGENCE, OR STRICT LIABILITY. Further, in no event shall the liability of Horizon exceed the individual price of the Product on which liability is asserted. As Horizon has no control over use, setup, final assembly, modification or misuse, no liability shall be assumed nor accepted for any resulting damage or injury. By the act of use, setup or assembly, the user accepts all resulting liability.

If you as the Purchaser or user are not prepared to accept the liability associated with the use of this Product, you are advised to return this Product immediately in new and unused condition to the place of purchase.

Law: These Terms are governed by Illinois law (without regard to conflict of law principals).

Safety Precautions:

This is a sophisticated hobby Product and not a toy. It must be operated with caution and common sense and requires some basic mechanical ability. Failure to operate this Product in a safe and responsible manner could result in injury or damage to the Product or other property. This Product is not intended for use by children without direct adult supervision. The Product manual contains instructions for safety, operation and maintenance. It is essential to read and follow all the instructions and warnings in the manual, prior to assembly, setup or use, in order to operate correctly and avoid damage or injury.

Questions, Assistance, and Repairs:

Your local hobby store and/or place of purchase cannot provide warranty support or repair. Once assembly, setup or use of the Product has been started, you must contact Horizon directly. This will enable Horizon to better answer your questions and service you in the event that you may need any assistance. For questions or assistance, please direct your email to productsupport@horizonhobby.com, or call 877.504.0233 toll free to speak to a service technician.

Inspection or Repairs

If this Product needs to be inspected or repaired, please call for a Return Merchandise Authorization (RMA). Pack the Product securely using a shipping carton. Please note that original boxes may be included, but are not designed to withstand the rigors of shipping without additional protection. Ship via a carrier that provides tracking and insurance for lost or damaged parcels, as **Horizon is not responsible for merchandise until it arrives and is accepted at our facility**. A Service Repair Request is available at www.horizonhobby.com on the "Support" tab. If you do not have

internet access, please include a letter with your complete name, street address, email address and phone number where you can be reached during business days, your RMA number, a list of the included items, method of payment for any non-warranty expenses and a brief summary of the problem. Your original sales receipt must also be included for warranty consideration. Be sure your name, address, and RMA number are clearly written on the outside of the shipping carton.

Warranty Inspection and Repairs

To receive warranty service, you must include your original sales receipt verifying the proof-of-purchase date. Provided warranty conditions have been met, your Product will be repaired or replaced free of charge. Repair or replacement decisions are at the sole discretion of Horizon Hobby.

Non-Warranty Repairs

Should your repair not be covered by warranty the repair will be completed and payment will be required without notification or estimate of the expense unless the expense exceeds 50% of the retail purchase cost. By submitting the item for repair you are agreeing to payment of the repair without notification. Repair estimates are available upon request. You must include this request with your repair. Non-warranty repair estimates will be billed a minimum of ½ hour of labor. In addition you will be billed for return freight. Please advise us of your preferred method of payment. Horizon accepts money orders and cashiers checks, as well as Visa, MasterCard, American Express, and Discover cards. If you choose to pay by credit card, please include your credit card number and expiration date. Any repair left unpaid or unclaimed after 90 days will be considered abandoned and will be disposed of accordingly. **Please note: non-warranty repair is only available on electronics and model engines.**

Electronics and engines requiring inspection or repair should be shipped to the following address:

**Horizon Service Center
4105 Fieldstone Road
Champaign, Illinois 61822**

All other Products requiring warranty inspection or repair should be shipped to the following address:

**Horizon Product Support
4105 Fieldstone Road
Champaign, Illinois 61822**

Please call 877-504-0233 with any questions or concerns regarding this product or warranty.

Losi Li-PO Charger – LOSB9603

Warning!

Lithium Polymer (Li-Po) batteries are significantly more volatile than other rechargeable batteries used in RC applications. Failure to read and follow these instructions and safety precautions **may result in fire, personal injury and damage to property**. Losi, Horizon Hobby, Inc., its retailers, and any other representatives, assume absolutely no liability for use of this product or failure to comply with these instructions and precautions.

If you are not prepared to accept complete liability for the purchase and/or use of this product, you are advised to return it new and unused to the place of purchase immediately.

Never ship batteries without the expressed permission of the recipient. Batteries carrying 25% or more charge cannot be shipped safely. Batteries which are damaged cannot be shipped safely. Damage or loss due to unsafe shipping is the legal responsibility of the person who shipped the product.

Usage Guidelines, Warnings and Safety Precautions

- **Always inspect batteries before charging.**
- **Never** charge or use a Li-Po battery or pack that shows any damage or disfigurement of any kind. Swelling is a sign of internal damage. Any breach of protective cover, wiring or plugs is also reason to discontinue use. See manufacturer's instructions for proper disposal of Li-Po batteries.
- **Never** charge around or in the area of any flammable or combustible materials.
- **Always** charge Li-Po batteries in or on fire resistant materials or containers.
- Do not store or charge Li-Po batteries with or around other batteries or battery packs of any type, including other Li-Pos.
- **Never** leave battery and charger unattended while in use. **Improper charging or discharging of Li-Po batteries could result in fire.**
- **Constantly monitor** the temperature of the battery pack while charging. If the battery becomes hot to the touch, discontinue charging immediately. Disconnect the battery from the charger and observe it in a safe place for approximately 15 minutes.
- If at any time you see a battery starting to balloon or swell up, discontinue charging immediately. Disconnect the battery from the charger and observe it in a safe place for approximately 15 minutes.
- **Do not allow children to charge Li-Po battery packs.**
- This charger is designed for 1, 2, and 3-cell Lithium-Polymer batteries ONLY. It MUST NOT be used to charge other Li-Po batteries, Ni-MH or Ni-CD battery packs.
- **Never** attempt to dismantle the charger
- **Always** disconnect the charger from the power supply after charging the battery
- **Disposal of Li-Po batteries requires special care. Follow manufacturer's instructions for safe disposal.**