

**INTRODUCTION** The information and procedures described in this manual are intended to assist medical professionals in the safe and effective use, care, cleaning, and long-term maintenance of INSURGICAL Battery Charger.

**INTENDED USE** The INSURGICAL Battery Charger is intended for use with the INSURGICAL MAXLiFe battery Cat. # 3002022 only.

**WARNINGS** INSURGICAL hand-held devices are provided STERILE. Contents of tray are sterile unless opened or damaged. If tray or lid is opened, damaged, or if USE BY Date is exceeded, DO NOT USE. SINGLE-USE. DO NOT RESTERILIZE.

- Only trained and experienced medical professionals should use this equipment. Failure to comply with the INSURGICAL Battery Charger instructions for use (IFU) may result in patient and/or medical staff injury.
- Do not use if damage is apparent.
- Use of eye protection is required while operating equipment.
- DO NOT modify.
- DO NOT use this equipment in the presence of flammable anesthetic and air, or with oxygen or nitrous oxide.
- DO NOT operate the Battery Charger with a damaged power cord or plug.
- DO NOT modify the ground of the Battery Charger power cord.
- Install the power cord of the Battery Charger directly into wall electrical outlet.
- DO NOT disassemble or service the Battery Charger. Return to INSURGICAL for service or repair. Failure to comply may result in electric shock or fire.
- Always disconnect the power cord from the Battery Charger before performing cleaning to reduce the risk of electric shock.

**CAUTION**

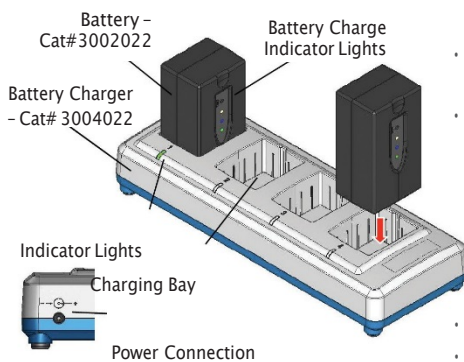
- DO NOT sterilize the Battery Charger.
- DO NOT connect multiple Battery Charger units in a series.

**ENVIRONMENTAL SPECIFICATIONS**

Storage Temperature: -40°C / 70°C

Operating Conditions: 0°C / 40°C 5% / 95%

**FEATURES**



- Power Connection – connects and disconnects Battery Charger from facility power.
- Charging Bay – accepts and charges INSURGICAL batteries (Cat. # 3002022). INSURGICAL Battery Charger accommodates up to four (4) batteries.
- Charging Bay and battery are mechanically protected, preventing incorrect introduction of battery to charging bay.
- Charging Bay Indicator Lights – provide battery status information when illuminated.

|        |                      |
|--------|----------------------|
| Amber  | Charging in Progress |
| Green  | Full Charge          |
| Yellow | System Alert*        |

\* Flashing yellow indicator light signals user that the battery has been charged more than 200 of its rated 300+ charging cycles. Yellow indicator light will flash 3 times then resume normal charging.

- Overcharge Protection – terminates battery charge at 15.77 VDC.
- Short Circuit Protection – prevents charger from commencing when battery has an electrical short.

**SETUP**

1. Connect the female end of the power cord to the power connection receptacle on the Battery Charger.
2. Connect the male end of the power cord to the wall outlet.

**BATTERY CHARGING**

- 1) Insert INSURGICAL battery (Cat. # 3002022) into the charging bay.  
Note: Charging bay and battery are mechanically protected, preventing incorrect introduction of battery to charging bay.
- 2) Follow warnings, caution, and notes in INSURGICAL Battery Instructions for Use.
- 3) Charging Bay Indicator Light will indicate battery status.

|        |                      |
|--------|----------------------|
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\* Flashing yellow indicator light signals user that the battery has been charged more than 200 of its rated 300+ charging cycles. Yellow indicator light will flash 3 times then resume normal charging.

### 4) Battery Charge Indicator Lights

|        |                      |                                       |
|--------|----------------------|---------------------------------------|
| Green  | Fully Charged        | Ready for Use                         |
| Blue   | 50 to 80% Charge     | Not fully charged, continue charging  |
| Yellow | Less than 50% Charge | Do Not Use, Return battery to charger |

Note: Batteries may be left in the charging bay when fully charged.

## CARE AND MAINTENANCE

INSURGICAL recommends facilities using the Battery Charger employ a regular care regimen that includes routine cleaning and inspection for damage.

### CAUTION

- Follow universal cautions and protective apparel when handling and cleaning contaminated instruments.
- DO NOT immerse Battery Charger in liquids.
- DO NOT use solvents, lubricants, or other chemicals to clean the Battery Charger unless otherwise directed.
- DO NOT allow water to collect on Battery Charger or its charging bays.
- DO NOT sterilize the Battery Charger.
- DO NOT clean the charging contacts with abrasives.









## CLEANING PROCEDURES

- 1) Disconnect the Battery Charger from the wall outlet.
- 2) Remove the batteries.
- 3) Wipe the external surfaces of the Battery Charger and charging bays with a clean lint-free soft cloth lightly dampened with a non-abrasive hospital disinfectant.
- 4) Dry immediately with a clean lint-free soft cloth.
- 5) Clean charging contacts using a cotton swab lightly with isopropyl alcohol. DO NOT clean the charging contacts with abrasives.
- 6) Ensure equipment is completely dry before reconnecting to power.
- 7) Inspect for damage or malfunctioning. Return damaged components to INSURGICAL.

## SPECIFICATIONS

|                             |  |  |
|-----------------------------|--|--|
| 1. Performance              | Input Voltage                            | +19VDC +/- 5%                                    |
|                             | Max Rated Current                        | 2.63A Maximum                                    |
|                             | Output Power Max.                        | 10.95 Watts per Bay, 43.8 Watts total for 4 bays |
|                             | Classification                           | Protection Class 2 with Functional Earth         |
| 2. Physical Characteristics | Class of Rating                          | Continuous Operation                             |
|                             | Dimensions                               | 319.02mm x 115.95mm x 48.20mm                    |
|                             | Weight Incl. Power                       | 1.05kg   |
| 3. Compliance Standards     | EMC Compliance Standards : IEC 60601-1-2 |  |
|                             | Safety Compliance: IEC 60601-1           |  |

## EXPLANATION OF SYMBOLS

|   |                                   |   |   |
|---|-----------------------------------|---|---|
|  | DO NOT SERVICE                    |  | ELECTRONIC EQUIPMENT – DO NOT THROW AWAY        |
|  | DANGEROUS ELECTRIC VOLTAGE INSIDE |  | PROPER EYE PROTECTION MUST BE WORN AT ALL TIMES |
|  | CAUTION, SEE INSTRUCTIONS FOR USE |  | DO NOT IMMERSE                                  |
|  | HUMIDITY LIMITS                   |  | TEMPERATURE LIMITS                              |

## DISPOSAL INSTRUCTIONS

Dispose of this product as municipal waste, according to local governmental regulations.

Contact INSURGICAL for complaint reporting at: [quality@insurgical.com](mailto:quality@insurgical.com)

For more information, please visit [www.insurgical.com](http://www.insurgical.com).

*Caution: Federal Law (USA) restricts this device to sell by or on the order of a physician.*

INSURGICAL, INC.  
11002 Metric Blvd Suite C  
Austin, Texas 78758  
+1 (800) 936-9296  
[insurgical.com](http://insurgical.com)