



CAUTION

Before use, refer to the CAPR[®] User's Instructions, P/N 03521015 (received with all CAPR Helmets) for details.



O.N. 2600-02
 P/N 01432202

Symbol Definitions



Warning, Caution, or Note



Order Number



WARNING

Use only if package is received unopened and contents are undamaged. If damage is noted, contact the shipper for replacement or repair.

Prior to using any MAXAIR[®] System or component, be sure to be familiar with the system's NIOSH approved configuration.

DO NOT use if any component is damaged. If any components are damaged or contaminated and therefore unfit for safe and effective use, they should be replaced immediately.

Only trained and experienced personnel who have read and understand the User's Instructions should use this product.

Failure to follow the User's Instructions, these and in the MAXAIR Systems User's Instructions, P/N 03521015, may be hazardous to the user's health.

The institution using this product in any application is responsible for determining the appropriateness of this equipment relative to regulatory requirements. Bio-Medical Devices Intl, Inc. does not recommend the appropriate systems for a particular institution or facility.

Use only MAXAIR Systems/ NIOSH approved compatible components.

NOT for use in atmospheres immediately dangerous to life or health (IDLH), and atmospheres containing less than 19.5% oxygen, or more than 25% oxygen.

Follow current local regulations governing biohazard and electronic component waste to safely dispose of chargers as appropriate.

If you need more information, contact your BMDI Sales Representative, or call BMDI customer service at 1-800-443-3842.

Regulatory

NIOSH
 CE

Intended Use

The MAXAIR[®] Chargers are intended to be used exclusively with MAXAIR Systems and are the only Chargers to be used for charging MAXAIR Systems Li-Ion Batteries.

Charging Protection from Electrical Surges

It is highly recommended to always connect the MAXAIR Charger directly to a Surge Protection Device, adequate for all anticipated occurrences, during all charging activities of MAXAIR LIBs, and whenever the Charger is connected to a mains power source.

To choose an appropriate surge protector you should consult with your Engineering department regarding specifics to your physical plant and geographical environment. You may want to consider the following common fundamentals -

- ▲ Indicator light – surge protectors will not last forever – when a surge protector properly diverts a surge, the protector itself can be damaged in the process. An indicator light will indicate that the surge protector is working fine.
- ▲ UL Rating - good surge protectors come with a UL rating (or equivalent regulatory mark for non U.S. countries, e.g. CE Mark, etc.), a rating put out by the independent Underwriters Laboratories that tests the safety of electronic devices.
- ▲ Clamping voltage - the voltage measurement that prompts the surge protector to start redirecting the excess electricity away from the plugged-in devices.
- ▲ A surge protector with a lower clamping voltage will trigger earlier, thus better protecting electrical devices.
- ▲ Joule rating - the maximum amount of energy the surge protector can absorb. If the surge exceeds this maximum, the surge protector will be rendered useless. The higher the joule rating, the more energy can be absorbed by the surge protector, therefore, a higher joule rating will often indicate a longer lifespan for the product.

Specifications

Systems Temperature Limits: 49°C maximum
Materials: All MAXAIR Products are latex free.
Input: 100-240 VAC 50-60 Hz, 0.5A maximum
Output: 16.8 VDC, 0.9A



WARNING

MAXAIR Chargers are only to be used in isolated areas away from patients and other activities, and away from flammable materials. Inspect the charger for damage before every use. Do not use if damage is apparent or suspect.

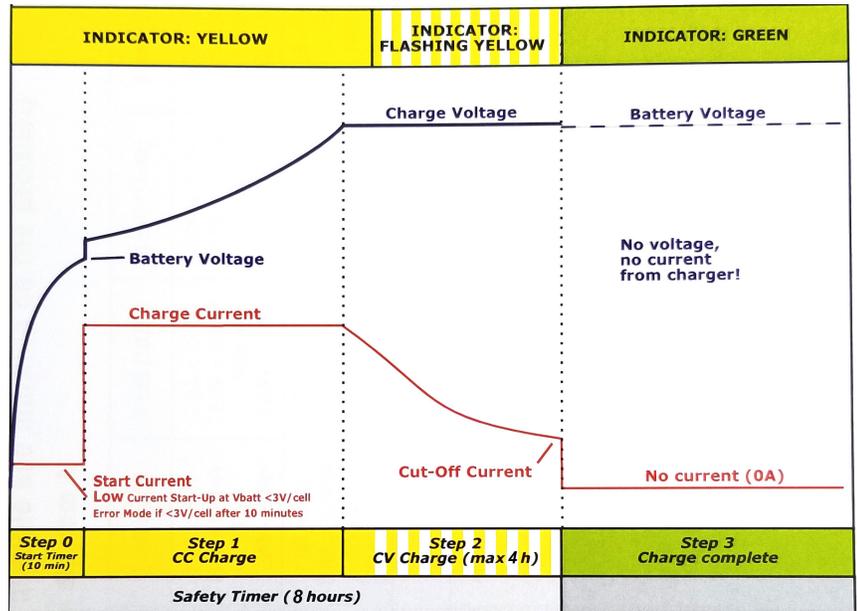
A battery should be connected to a charger only until the Charger LED turns Green indicating a fully charged Battery. When the Charger LED turns Green, the Battery should be disconnected from the Charger.

Charging Characteristics and LED Indication

Step 1 - Constant Current Charge cycle starts automatically when connected to mains and battery is connected to charger. The LED is YELLOW. Maximum charger current allows rapid charging to 80-95% capacity.

Step 2 - Constant Voltage (Timer) Charge. Charge voltage is constant and charge current is decreasing. The LED is FLASHING YELLOW. This continues until current has decreased to end of charge detection level or until Timer runs out (8 hours). The battery is charged to full capacity.

Step 3 - Charge Complete. The LED turns GREEN, the battery is charged to full capacity; the charge current is zero. A new charge cycle will be initiated if battery voltage decreases with 0.1 V/cell.



Charging Instructions



1. Connect the Charger to an appropriate grounded wall power source (120-240 VAC, 50-60 Hz) before connecting Battery(ies). The Charger Green status LED should be blinking.



2. Connect the Battery(ies) to the Charger(s) by pushing the Charger Cord Connector into the Battery Connector Receptacle until fully seated. The Charger LED should change from Green to Yellow or flashing Yellow to indicate charging. If the LED is Green after being connected to the Battery for 10 seconds, the Battery is ready for use.



3. The Charger LED changes to Green when charging is complete. Disconnect Battery(ies) from Charger(s): pull the Charger Cord Connector from the Battery Connector receptacle. The Battery(ies) is(are) ready for use.

Alert Indications

- FLASHING GREEN - Battery not connected.
- 2 Red Blinks - Battery is connected with wrong polarity.
- 3 Red Blinks - Charger output is shorted.
- 4 Red Blinks - Battery voltage low and may need replacing.
- 5 Red Blinks - Safety timer has run out - battery should be replaced.
- LED Off - Battery voltage is too high - battery should be replaced.