



# Single Charger User Manual

## AB-C18110 & AB-C18220

for AcraDyne Batteries AB-B1825LI & AB-B1850LI



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# 1. BASIC INFORMATION

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## 1.1. PURPOSE OF THIS DOCUMENT

This information has been written with the intention of being read, understood, and adhered to in all aspects by those who bear responsibility for this battery charger. The information contained in this document is important for avoiding workplace mishaps and ensuring problem-free operation. If, despite this, problems are encountered, then please contact us; we would be pleased to help you.

## 1.2. INTENDED USE

The tool may only be used to charge matching batteries as specified in this manual.

**! Intended use includes the following:**

- Observing all information in the operating instructions, and
- Complying with the inspection and maintenance tasks

The quick charger serves to recharge the following batteries:

- **AB-B1825LI & AB-B1850LI**

### 1.2.1. Improper use

We bear no liability for damage or operating problems resulting from noncompliance with operating instructions or improper use.

### **1.3. WARRANTY AND LIABILITY**

#### **NEW TOOL AND ACCESSORY WARRANTY**

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Any new tool or accessory branded with the AIMCO, Uryu, AcraDyne or Eagle Industries name, and purchased from AIMCO, or through one of its authorized distributors or agents, is warranted to the original buyer against defects in materials and workmanship for a period of one (1) year\* from date of delivery. Under the terms of this warranty, AIMCO will repair or replace any product or accessory warranted hereunder and returned freight prepaid proving to AIMCO's satisfaction to be defective as a result of workmanship or materials. In order to qualify for this warranty, written notice to AIMCO must be given immediately upon discovery of such defect, at which time AIMCO will issue an authorization to return the tool. The defective item must be promptly returned to an authorized AIMCO service center with all freight charges prepaid.

#### **REPAIRED TOOL WARRANTY**

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Once a tool is beyond the new product warranty period as detailed above, AIMCO repairs are subject to the following warranty periods: pneumatic tools: 90 days\*; electric tools and Acra-Feed: 90 days; battery tools: 30 days\*; DC Electric tools: 90 days\*

#### **EXCLUSION FROM WARRANTY**

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This warranty is valid only on products purchased from AIMCO, or thru its authorized distributors or agents. AIMCO shall have no obligation pursuant to the AIMCO Warranty with respect to any tools or accessories which in AIMCO's sole judgment have been altered, damaged, misused, abused, badly worn, lost or improperly maintained. This Warranty is null and void if the customer, or any other person other than an authorized representative of AIMCO, has made any attempt to service or modify the tool or accessory prior to its return to AIMCO under this Warranty.

The warranty provision with respect to each such product may be amended by AIMCO from time to time in its sole discretion. The liability of AIMCO hereunder shall be limited to replacing or repairing, at its option, any products which are returned freight prepaid to AIMCO and which AIMCO determines to be defective as described above or, at AIMCO's option, refunding the purchase price of such products.

AIMCO reserves the right to make periodic changes in construction or tool design at any time. AIMCO specifically reserves the right to make these changes without incurring any obligation or incorporating such changes or updates in tools or parts previously distributed.

THE AIMCO WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, AND AIMCO EXPRESSLY DISCLAIMS ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. THIS WARRANTY SETS FORTH THE SOLE AND EXCLUSIVE REMEDY IN CONTRACT, TORT, STRICT LIABILITY, OR OTHERWISE.

THIS WARRANTY IS THE ONLY WARRANTY MADE BY AIMCO WITH RESPECT TO THE GOODS DELIVERED HEREUNDER, AND MAY BE MODIFIED OR AMENDED ONLY BY A WRITTEN INSTRUMENT SIGNED BY A DULY AUTHORIZED OFFICER OF AIMCO.

### **LIMITATION OF LIABILITY**

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AIMCO'S LIABILITY PURSUANT TO WARRANTY OF THE PRODUCTS COVERED HEREUNDER IS LIMITED TO REFUND OF THE PURCHASE PRICE. IN NO EVENT SHALL AIMCO BE LIABLE FOR COSTS OF PROCUREMENT OF SUBSTITUTE GOODS BY THE BUYER. IN NO EVENT SHALL AIMCO BE LIABLE FOR ANY SPECIAL, CONSEQUENTIAL, INCIDENTAL OR OTHER DAMAGES (INCLUDING WITHOUT LIMITATION, LOSS OF PROFIT) WHETHER OR NOT AIMCO HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH LOSS, HOWEVER CAUSED, WHETHER FOR BREACH OR REPUDIATION OF CONTRACT, BREACH OF WARRANTY, NEGLIGENCE OR OTHERWISE. THIS EXCLUSION ALSO INCLUDES ANY LIABILITY WHICH MAY ARISE OUT OF THIRD PARTY CLAIMS AGAINST BUYER. THE ESSENTIAL PURPOSE OF THIS PROVISION IS TO LIMIT THE POTENTIAL LIABILITY OF AIMCO ARISING OUT OF THIS AGREEMENT AND/OR SALE.

Note: The AIMCO Warranty confers specific legal rights, however some states or jurisdictions may not allow certain exclusions or limitations within this warranty.

\* All warranty periods addressed herein are determined using a standard shift, eight-hour work day.

## 2. BASIC SAFETY INFORMATION

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### 2.1. INFORMATION CONTAINED IN THIS DOCUMENT

- A basic prerequisite for safety-compliant handling and problem-free operation is knowledge of the basic safety information and safety regulations.
- Also be sure to observe all local rules and regulations.

### 2.2. OWNER RESPONSIBILITIES

The owner is obligated to only allow persons who are familiar with basic work safety and accident prevention rules and who have been briefed on proper workplace handling to work at this workplace. The safety-conscious work of personnel must be verified at regular intervals.

#### 2.2.1. Personnel responsibilities

All persons who are tasked with working at this workplace are obligated, **before** beginning with work, to observe the basic regulations covering work safety and accident prevention.

#### 2.2.2. Personnel training

Only personnel that have been trained and briefed in advance may work at this workplace. Personnel responsibilities for installation, placement into service, operation, maintenance, and repair must be clearly defined. Personnel still to be trained may only work at this workplace under the supervision of someone who is trained and experienced.



The device is designed using state-of-the-art technology and according to recognized safety standards. Nonetheless, operating the device can entail the risk of life-threatening injury to the user, third parties, or property.



The workpiece is only to be used:

- For intended purposes
- If it is in proper and safe working condition

### 2.3. ELECTRICAL HAZARDS



Only allow work to be carried out by an electrical specialist. Regularly check the electrical equipment. Rectify loose connections immediately.

### 2.3.1. Basic safety measures

- **Keep your work area in good condition**
- **A disorderly work area can result in an accident**
- **Take environmental factors into account**
  - Do not expose the charger station to rain.
  - Do not use the charger station in a humid or wet environment.
  - Ensure that there is sufficient illumination.
  - Do not use the charger station in the proximity of flammable liquids or gases.
- **Keep children away**
  - Do not allow other persons to touch the device or cable; keep them away from your work area.
- **Use the correct device**
  - Do not use the charger station for purposes and work for which it was not intended.
- **Do not misuse the cable**
  - Do not pull the plug out of the power socket by the cable.
  - Protect the cable against heat, oil and sharp edges.
- **Maintain your device with care**
  - Keep charger station clean for better and safer operation.
  - Regularly inspect the cable and, in case of damage, have it replaced by a qualified expert. Keep the device dry and free of oil and grease.
- **Pull out the main power plug when not in use and before maintenance.**
- **Inspect your device for damage**
  - Before using the charger station, the protective equipment or damaged parts must be tested to ensure problem-free functionality according to their intended purpose.
  - Check whether moving parts function properly and determine whether or not they jam, whether any parts are broken, whether all other parts are flawless, are correctly installed and whether all factors that could influence operation of the device are OK.
  - Damaged protection equipment, switches, and other parts should be properly repaired or replaced by a customer service center.
- **Protect yourself against electric shock**
  - Avoid any body contact with grounded parts, e.g. pipes, radiators, stoves, refrigerators.
- **Replacement parts**
  - For repair and maintenance, only original replacement parts obtained from AIMCO may be used.



### **EXPLOSION HAZARD!**

Do not open batteries or the battery charger, and protect them against jolts, heat, and fire. Do not toss used batteries in a fire or dispose of them in regular garbage.

- **Defective batteries**

Do not use the battery charger with any defective batteries and vice versa.

- **Symbols**

Observe the symbols marked on the power rating plate of the battery charger.

- **Dismantling**

Do not disassemble either the battery or the battery charger.



Protect the battery charger against metal objects, as there is a risk of short circuiting. The ventilation slits on the battery charger must also be protected against metal and/or metal shavings.

### **2.3.2. Observing the Line voltage**



#### **Adhere to the correct line voltage.**

Using a higher voltage than is specified can lead to **serious injuries** of the operator and cause damage to the device itself. In case of doubt, do not connect the device and first verify the line voltage.

## **2.4. STRUCTURAL MODIFICATIONS**

No changes, extensions, or modifications may be carried out on the device without the approval of the manufacturer. All modifications require written confirmation by AIMCO.

Immediately replace device parts that are not in flawless condition.



Use only original replacement parts.

## **2.5. Cleaning and disposal of the device**

Handle and dispose of the substances and materials utilized in a proper manner, especially when cleaning with solvents.



### 3. PLACEMENT INTO SERVICE



#### **Only use the charger station in dry rooms.**

All ventilation slits must be unobstructed. Place the device as far away as possible from exposure to heat and solar energy, as an ambient temperature of more than 95° F (35° C) can lead to substantially longer charging times.



Prior to connecting the device, observe specifications on the type plate concerning line voltage, frequency, and current consumption. Once the main power cable has been inserted in the power socket, the charger station is operationally ready. Nothing else needs to be switched on.

#### 3.1. OPERATION

**Green LED flashing** (right LED): Battery is too hot or cold. Preferably charge the battery at room temperature.

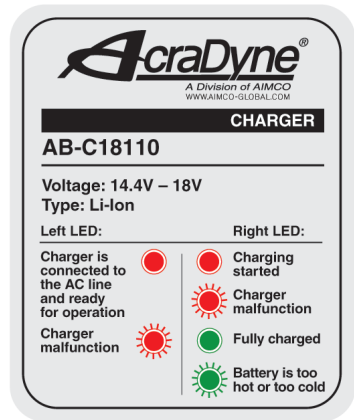
**Red LED flashing** (right LED): Battery is damaged. Remove the battery and give it to the repair station or change it. A battery may only be repaired by professionals. Opening the casing could result in an electrical shock.

**Red LED on** (right LED): Battery is charging.

**Green LED on** (right LED): Battery is fully charged.

**Red LED on** (left LED): Charger is connected to power.

**Red LED flashing** (left LED): Charger is malfunctioning. Don't charge other batteries on this charger — they could be damaged or defective after charging. Change the charger or have it repaired by a professional. Opening the casing could result in an electrical shock.



**CAUTION!**  
Always ensure  
correct  
polarity +/-.



**CAUTION!** When charging two batteries consecutively, allow the charger to cool down between charges. A fully charged battery may reside in the plugged charger following full charge levels. If the battery is fully charged on the charger, no charging current flows; the charging process has stopped.

## 4. TECHNICAL DATA

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	<b>AB-C18220</b>	<b>AB-C18110</b>
Connection	220–240V / 50–60 Hz	110V / 50–60 Hz
Charging current per box	3.0 A	3.0 A
Output	18 V	18 V
Discharge current	30 mA	30 mA
Charging time	25–80 minutes	25–80 minutes
Switch-off criteria	$\Delta U$ , temperature termination	$\Delta U$ , temperature termination

### 4.1. DIMENSIONS

#### **AB-C18220 & AB-C18110**

Size (W x H x D): 85.5 x 106.8 x 152.5 mm

Weight: ca. 0.5 kg

### 4.2. ADDITIONAL CHARACTERISTICS

- Quick charger for 18 V Li-Ion battery pack  
AB-B1825LI & AB-B1850LI
- Battery defect detection
- Battery surge protection
- Microprocessor-controlled charging
- Charging time depending on the capacity of the battery
- Automatic voltage detection

## NOTES

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