

Models: 12 Volt: JAC0212 (2 amp)

24 Volt: JAC0224 (2 amp)

PLEASE READ all operation and safety precautions before using charger. Contact Schauer Battery Chargers with any questions prior to operation.

The term *battery* will be used to reference a single battery or multiple battery pack connected in series or parallel.

Caution! Safety precautions must be observed to avoid personal injury, electrical shock or battery explosion!

- Confirm proper application of charger and battery pack voltage (ie. 24 volt charger with 24 volt battery pack)
- If required, check for proper electrolyte level in battery (do not overfill, acid may overflow during charging)
- Position charger as far from battery as DC cord will allow while charging. Hydrogen gas may escape from battery during charging, do not position charger above or below battery while charging
- Plug charger into a grounded AC outlet
- Operate charger in an environment with proper ventilation
- Charger must not be operated in a damp or wet environment
- Use proper charge rate (amperage) for battery rated amp hour (Ah) capacity. Check with battery manufacturer
- Do Not charge a frozen battery
- Be sure your battery is not drawing any load from equipment or instruments when you are charging
 - A current draw on the *battery* during charging may prohibit charger from switching into the maintenance float mode, resulting in overcharging, gassing and low electrolyte levels. Contact Schauer Chargers if your application involves a constant current draw for options.

This is a multi-stage automatic charger: Bulk charge → Absorption charge → Maintenance float

LED charging sequence indicator Lights:

Green LED: AC power connected and charger not connected to battery

Red LED: AC power connected, charger in Bulk / Absorption charge modes

Green LED: Battery charged, Charger in maintenance float mode

Flashing Red LED:

- Flashing Red LED after time of solid Red LED, Charger is finishing Absorption mode before Full Charge with Green LED
- Flashing Red Led when connected, Charger connected to a battery with too large of Ah capacity to properly charge
- Flashing Red LED when connected, Charger is connected to a dead or shorted cell battery

Caution! This charger is intended for use with rechargeable Lead Acid type *battery* only: Flooded, Gel, AGM, SLA, VRLA and SLI (starting / automobile). Use with any other type of *battery* may cause damage or explosion.

Charger is equipped with a final stage maintenance float mode. You may leave charger attached to the *battery* for prolong periods of time and it will not overcharge the *battery*. Lead acid *battery* prefer to be in a charged state. It is recommended to charge your *battery* after each use. Leaving the charger attached in float mode will aid against sulfation build-up on the *battery*'s lead plates and maintain *battery* in a ready state.

If AC power is interrupted by a power outage or other, the charger will resume its charge/maintenance cycle when AC power is restored.

Proper charge rate (charger amperage rating) must be used to prevent damage to *battery*. Contact *battery* manufacturer for recommended charge rate. For a single battery or batteries connected in series (negative to positive), the *battery* amp hour (Ah) capacity is that of a single battery. For batteries connected in parallel (positive to positive and negative to negative), the *battery* Ah capacity is cumulative of all battery's Ah.

Only batteries of same Ah rating, size and condition/age should be connected in series or parallel. Combining batteries of different capacity, age or condition will result in an unbalanced charging of individual batteries in the pack resulting in possible *battery* damage.

This 2 amp automatic charger with final maintenance float stage can be used as a maintainer on a larger capacity battery. Charger should be attached to a fully charged battery for long-term battery maintenance.

Caution! Charger operation, connections and proper electrolyte level should be checked routinely.

Care of operation:

- Battery charger must only be used for the purpose specified by the manufacturer.
- Wear proper eye and clothing protection at all times
- Someone should be within range of your voice when working with a battery & charger
- Do not operate the battery charger if housing or cables are damaged.
- Lay cables in such a way they are not in risk of damage or tripping.
- Position charger on secure surface to avoid falling over, keep out of reach of children.
- Do Not smoke or exposed to spark or flame while charging
- Do not drop metal tools or personal items across battery terminals causing shorts or sparking
- A qualified person familiar with the risks involved must perform service or repair

CHARGING CURVE

Lead-Acid Battery Charge Trace Charging Bulk Charge Absorption Charge Float Charge(PULSE) Started Bulk Voltage Setting DC Voltage Absorption Time Stage Battery Charger DC Voltage and Current Charge Battery Charge Profile DC Current Constant Current! Constant Voltage Reduced Current and Voltage TRIP ST 2 ST 3 ST Time

Limited Warranty

[This warranty is extended only to original end user retail purchasers.]

- 1. Subject to the terms and conditions herein, The Brookwood Group, Inc., d/b/a Schauer Battery Chargers ("Schauer") hereby warrants only to the original end-user purchaser ("Original Purchaser") that its Products will be free of defects in materials and workmanship for a period of two (2) years after date of purchase by the Original Purchaser. In the event a Product is defective, Schauer, at its discretion, will either (a) repair the Product, (b) replace the Product, or (c) refund the purchase price for the Product. Schauer "Products" include battery chargers, test instruments, recreational vehicle accessories, and component parts thereof, in each case if purchased in the original Schauer packaging and without alteration. This limited warranty is extended only to the original end-user purchaser at retail and is not assignable.
- 2. This warranty only applies to Products that (i) are operated in accordance with their technical and operational instructions, and (ii) have not been damaged or altered by repair or service not rendered by Schauer or by a Schauer authorized repair station. This warranty is contingent upon proper storage, handling and implementation of the Product and does not cover Products that have been subjected to physical abuse, electrical stress from improper handling or implementations inconsistent with Schauer's technical directions.
- 3. To obtain warranty repairs, the Product should be carefully packaged and delivered, postage or delivery charges prepaid, to Schauer Battery Charges, 3210 Wasson Rd. Cincinnati, Ohio 45209, or to a Schauer authorized repair station. If the Product is within the coverage of this limited warranty, and the Product is replaced or repaired, the Product will be returned to End User at Schauer's expense.
- 4. TO THE EXTENT PERMITTED BY APPLICABLE LAW, THE FOREGOING WARRANTY OBLIGATION OF SCHAUER CONSTITUTES THE SOLE WARRANTY TO AND EXCLUSIVE REMEDY OF THE ORIGINAL PURCHASER AND THE SOLE LIABILITY OF SCHAUER. EXCEPT AS SET FORTH IN PARAGRAPH 1 HEREIN, AND EXCEPT AS TO TITLE, (A)THERE IS NO WARRANTY OF MERCHANTABLITY, FITNESS FOR PARTICULAR PURPOSE, OR ANY OTHER WARRANTY, EXPRESS, IMPLIED OR STATUTORY, NOR ANY AFFIRMATION OF FACT OR PROMISES BY SCHAUER WITH RESPECT TO THE PRODUCT OR OTHERWISE WHICH EXTEND BEYOND THE SPECIFICATIONS PROVIDED IN WRITING BY SCHAUER TO THE ORIGINAL PURCHASER, AND (B) BY ACCEPTANCE OF DELIVERY OF THE PRODUCT THE ORIGINAL PURCHASER ACKNOWLEDGES THAT IT IS PURCHASING THE PRODUCT SOLELY ON THE BASIS OF THE COMMITMENTS OF SCHAUER EXPRESSLY SET FORTH HEREIN. TO THE EXTENT PERMITTED BY APPLICABLE LAW, SCHAUER SHALL NOT BE LIABLE FOR ANY SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES.
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