

Schauer

Battery Chargers

Models: **12 Volt:** **JAC0212-C** (2 amp)
 24 Volt: **JAC0224-C, JAC024-XLR** (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.

Model	AC Input Voltage	DC Output Current	Bulk Charge Voltage	Maintenance Voltage
JAC0212	Universal 90 - 240 VAC	2 Amp	14.6 VDC	13.5 VDC
JAC0224		2 Amp	29.2 VDC	26.5 VDC

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

Note: A flashing Red LED may occur after solid Red LED as charger is switching to maintenance mode on certain batteries

Caution! This charger is intended for use with rechargeable Lead Acid type *battery*: Flooded, Gel, AGM, SLA, VRLA and SLI (starting / automobile). Use with Lithium Ion battery will illuminate a very dim Red LED after a solid, bright charging Red LED period caused by Lithium Ion battery's slower and more stable self-discharge voltage. 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.

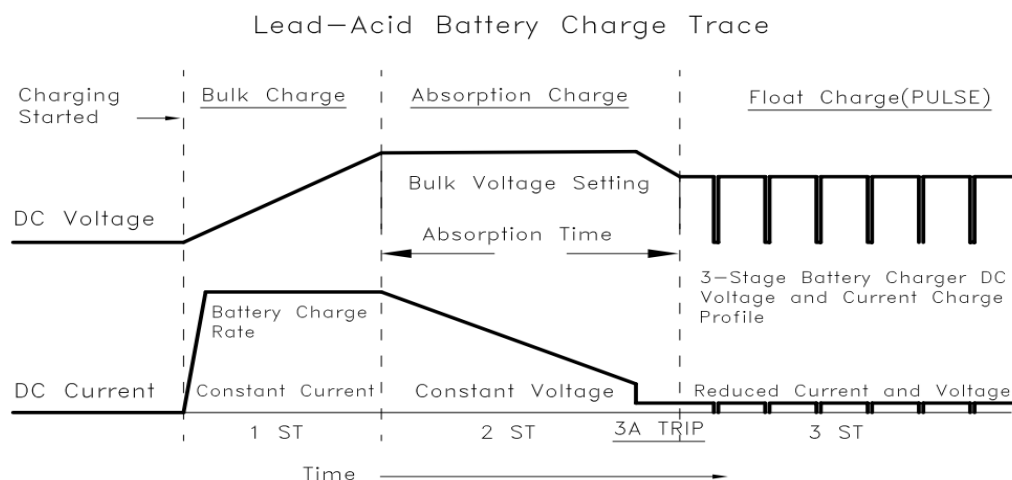
This 2 amp automatic charger with final maintenance float stage can be used as a maintainer on a larger capacity battery. Charger should be attached to a fully charged battery for long-term battery maintenance.

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



Schauer Battery Chargers

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Limited Warranty

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

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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.
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