

Schauer

Battery Chargers

Models: JAC2512, 25 amp 12 volt

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.

Select proper AC Power input using the Red slide “115 / 230” selection switch on the bottom of the charger. Improperly using the “115” selection on 230 VAC power will blow the AC input fuse.

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. 12 volt charger with 12 volt *battery*)
- ❖ Always check for proper electrolyte level in *battery* (do not overfill, acid may overflow during charging)
- ❖ Charger’s power switch should be Off and unplugged from AC outlet before connecting to *battery*
- ❖ 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:

Upper LED (Power): Red – AC power connected, Power switch On

Lower LED (Equalizer): OFF – Charger Not Connected / Connected and minimum *battery* voltage not sensed

Lower LED (Equalizer): Amber – Charging stages Bulk and Absorption - cooling fan active

Lower LED (Equalizer): Green – *Battery* charged, Charger in maintenance float mode

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 Safety Features:

- Reverse Polarity protection
- Short Circuit Protection
- Cooling Fan
- Low voltage turn-on (load sensing)
 - Charger requires a minimum battery voltage to begin charging cycle. This protects against trying to charge a dead or shorted *battery*. Lower LED would remain off when connected. Minimum voltage is 1/3 charger rated voltage (example: 12 volt charger, minimum battery voltage requirement is 4 volts)

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.

When charger is turned off the LED lights may flash for several seconds as power dissipates from charger. If AC power is interrupted by a power outage or other, the charger will resume its charge/maintenance cycle when AC power is restored.

Flooded / Gel or AGM Switch: Choose proper lead acid battery type before connecting charger.

- Flooded: *Battery* with removable caps / distilled water can be added to electrolyte
- Gel/AGM: Maintenance free batteries, sealed / VRLA

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.

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

Proper electrolyte levels for Flooded (Wet), non-maintenance free sealed batteries:

Note: Use distilled/purified water only. Unfiltered tap water contains minerals that may cause build up on lead plates of *battery*.

Confirm correct electrolyte level per your battery's manufacturer instructions. Check electrolyte level routinely to avoid exposing lead plates to air; this may cause irreparable damage due to oxidation to the lead plates reducing the battery's capacity. Do not fill to correct level prior to charging; this may cause overflow during charging. It is best to fill *battery* several hours after charge cycle when the battery has cooled down. If top of plates are exposed before charging, only add enough water to cover the top of the plates; top off level after charge cycle and batteries have cooled down. Electrolyte gassing (bubbling) towards the end of charge

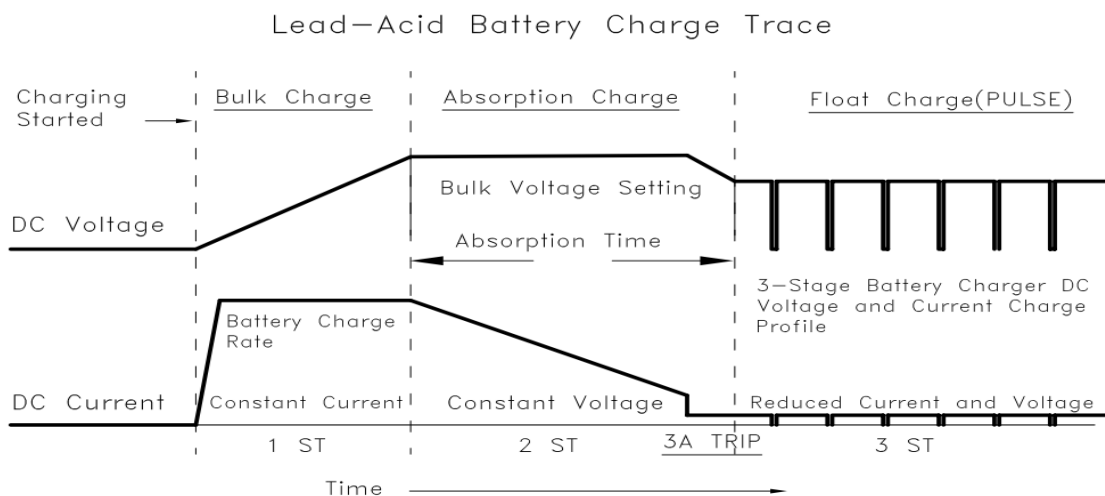
cycle is beneficial for the health of the battery. It keeps the electrolyte from stratifying and condensing in the lower portion of the battery causing uneven charging of the plates. Prolonged gassing will lower electrolyte level.

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

Caution! If you have any questions about proper charger application, contact Schauer Battery Chargers before connecting or attempting to operate charger.

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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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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