

Congratulations on your purchase of a Vulcan Electric SM Series battery charger!
It is designed and manufactured to provide years of trouble-free service and will extend battery life compared to non-automatic battery chargers.

Charger Installation Procedures And Cautions

WARNING:

The following procedures must be followed exactly to avoid injury, fire, or risk of electric shock. Inspect your charger thoroughly prior to installation to ensure that the unit is not damaged and that parts have not loosened during shipping. Inspect the product nameplate and cross reference the information with the packing slip and your order to ensure you have received the correct charger.

IMPORTANT:

As battery technology has developed please verify that this product is suitable for charging your Gel, AGM, VRLA or Deep Cycle Lead Acid Batteries. Do not use this product on Automotive Starting Batteries. Ensure your battery can be bulk charged at a CC/CV , Constant Current of 13 Amps / Constant Voltage of 29.4VDC and a float voltage of 27.2VDC. You are responsible for determining the suitability of this charger for your battery and your particular Application.

Do not use this product if your application has a parasitic load such as PLC's and the load exceeds 2.5 amps as the charger will remain in a bulk mode charge of 29.4VDC causing the batteries to gas excessively.

This Charger may not start below 10VDC, ensure that you maintain your battery in a reasonable state of Charge.

For non "maintenance free" batteries, (Deep Cycle Lead Acid Batteries) the electrolyte fluid level should be checked at least once a month whether the equipment is in use or extended operational pause. Use only distilled water to replenish the electrolyte fluid. Refer to your battery manufacturers specifications for details. Do not leave discharged batteries for more than a day or two without recharging. They undergo a chemical process referred to as sulphating. Sulphating is the build up of dry sulphuric acid on the lead plates of the battery, a common sign of sulphating is the sides of the battery are bulging. These batteries may be permanently damaged and very difficult to recharge. Always periodically recharge batteries even when they are not in use.



CAUTION: Do not expose to rain or pressure wash!

ATTENTION: Ne pas exposer a la pluie ou lavage sous pression!

Mount the charger in a dry location that is free from vibration and offers sufficient ventilation. Slots and openings have been added to the cabinet for the purpose of ventilation. To ensure reliable operation of the charger, and to prevent it from overheating, these openings must not be blocked or covered.



CAUTION: If floors of combustible material are used under this Equipment they must be covered by a plate of steel which extends 150mm (6") beyond all Sides.

ATTENTION: Si le Plancher sous cet apperiel es ten materiaux combustible le couvrir d'une feuille d'acier se prolongement de 150mm (6") sur tous le cotes.

Do not install electronic or electrical equipment including this battery charger in the battery compartment. Lead acid batteries emit hydrogen and oxygen gases during recharging, therefore, you must vent the battery compartment to prevent these gases from accumulating. Never smoke or use open flame when working around batteries. Always wear appropriate safety apparel, including eye protection, when handling or working around batteries. Follow all electrical and safety codes to ensure a safe installation.

When installing and connecting the charger to the batteries, connections to the battery or battery posts must be made via appropriate SB type connectors or permanent ring lugs that provide a reliable low-resistance connection. Alligator clips are not a suitable connection. Clean your batteries' contacts regularly.

Standard Operating Features

- Automatic Self Starting – requires only battery connection to start bulk charge at CC/CV, 29.4VDC 13 amps Current limited.
- Automatic float – electronic circuit ends charge after completion of the bulk charge and enters a float charge of 27.2VDC float with 4A hold range.
- Charger status LED (RED) indicated charging in progress. (GREEN) indicates the bulk charge is complete and the charger is floating the battery at 27.2VDC
- AC and DC circuit protection.
- Short Circuit recovery.