

# AMP-L-START™

## 15 Amp Starting Battery Charger/Maintainer

### FEATURES

#### For Gas & Diesel Engines

Single or dual starting battery applications

#### Fully Automatic Operation

Install it and forget it!

#### Gentle, Tapered Charge Rate

Prevents over/undercharging, minimizes water loss.

#### No AC Power Cord

"Steals" DC power from your house battery charger - No AC wiring or extension cords required!

#### Safer Than AC-Powered Chargers

No electric shock or fire hazards.

#### Powerful 15 Amp Maximum Output

Easily handles even the largest dual starting battery banks.

#### 5 Status LEDs

Monitor all charging functions, warn against improper hook-up, disconnected batteries or overvoltage/overdischarge conditions.

#### Low Starting Battery Alarm

Built-in alarm beeps if starting batteries are in danger of overdischarge - Helps protect them from permanent damage.

#### Overvoltage Protection

Automatically shuts down during house battery equalization or house battery charger malfunction, resumes normal operation afterwards.

#### Optimizes Starting Battery Life

Prevents destructive deep discharges - Pays for itself in battery savings!

#### Also Works With Solar Panels

Perfect for camping or RV storage in areas where AC power isn't available.

#### Rugged, Reliable Design

Protected against reverse polarity, and encapsulated inside a solid block of epoxy - Shrugs off moisture, dust, grease and oil.

#### Hardware & Connectors Included

Includes an assortment of crimp-on ring terminals for connections to your batteries or isolator relay.

#### Exact Same Mounting "Footprint" as our 5-amp TRIK-L-START™ Model

Makes an ideal high-performance upgrade in all applications where TRIK-L-START™ was previously installed.

AMP-L-START™ is a "smart" charger/maintainer for your engine starting batteries. Capable of supplying up to 15 continuous amps of charging current, it is the "big brother" of our popular 5-amp TRIK-L-START™ model, and can be used as an upgrade in all applications where the TRIK-L-START™ was previously used.

**HOW IT WORKS** - Connected between your house and engine starting batteries, AMP-L-START™ "steals" some of the charging current from your house battery charger (or solar panels) to also keep your engine starting batteries charged. Whenever no house battery charging source is present, it automatically shuts down, thereby preventing any reverse current flow back into the house batteries.

The unit automatically adjusts charging current from 0-15 amps, depending on battery demand.

It works with 1- and 2- starting battery systems, and all battery types - Gell-Cell, AGM, or "wet".

### ADDITIONAL FEATURES:

**A Low Starting Battery Alarm** beeps if your starting battery voltage drops below approx. 11.9 volts, protecting them against damage due to overdischarge.

**An Overvoltage Shutdown** feature prevents starting battery damage due to excessive voltage (i.e., 14.75 volts or greater). Normal operation resumes as soon as the house batteries drop below approx. 14.5 volts.

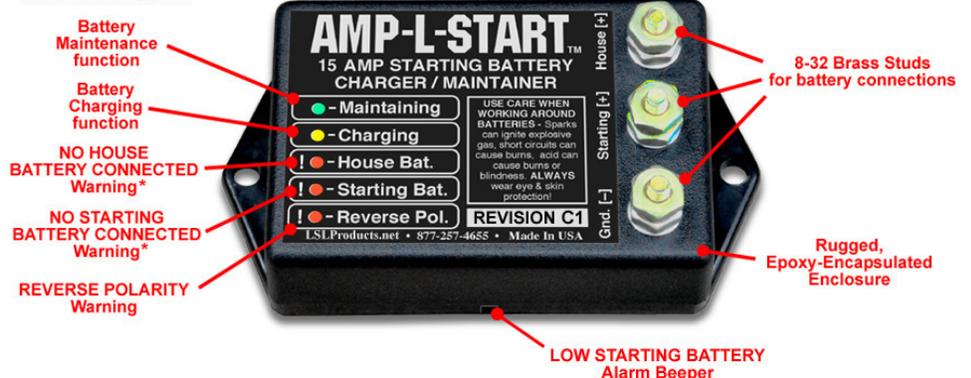
**Status LEDs** warn if your house or starting batteries are disconnected, or if abnormal charging voltages are present.

AMP-L-START™ is designed for permanent installation, and includes everything needed for a typical installation (except wire - stranded 12 or 10 gauge is recommended). Illustrated instructions make the installation process an easy 20-minute job in most applications.

AMP-L-START™ comes with a 1-year warranty, and our toll-free lifetime technical support.

(See next page for specifications, ordering information) →

#### INDICATOR LEDs:

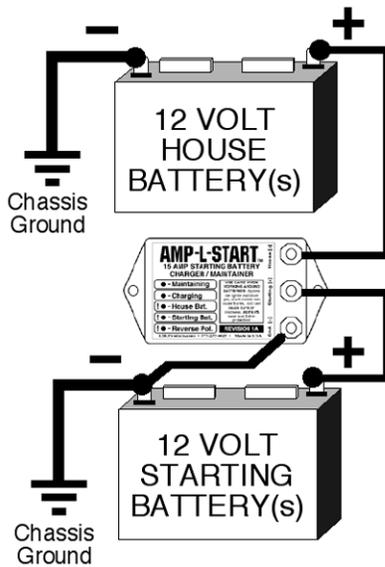


\*These 2 LEDs also flash simultaneously to indicate Overvoltage Shut-Down Mode.

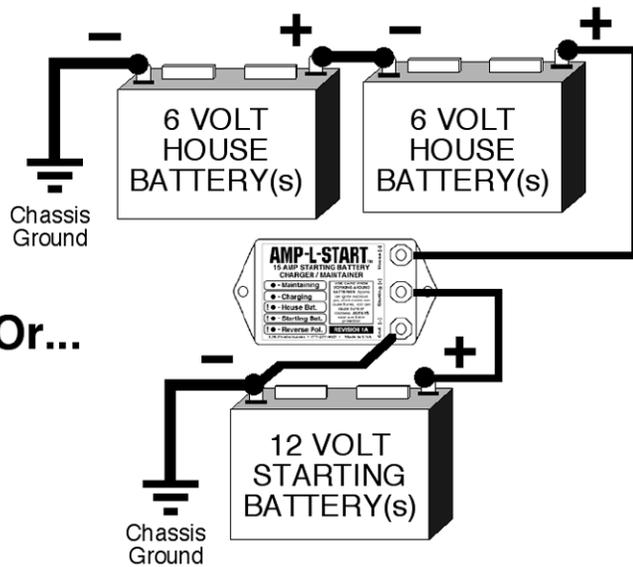
# EASY 3-WIRE HOOKUP

Works with 12 volt house batteries...

...Or with series-connected 6 volt "golf cart" house batteries.



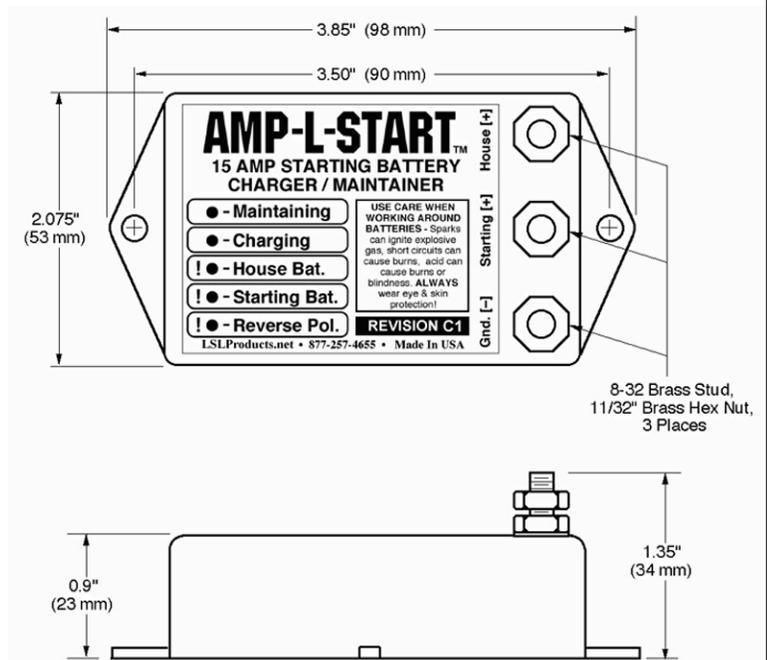
...Or...



## ELECTRICAL SPECIFICATIONS

- SUPPLY VOLTAGE: 7.0 - 18.0 VDC
- OUTPUT CURRENT: 0 - 15 Amps Continuous
- IDLING CURRENT DRAIN: 0.002 Amps Typ.
- OPERATING TEMPERATURE: -30° to +140° F.
- CONNECT VOLTAGE: 13.2 VDC ±2%
- DISCONNECT VOLTAGE: 12.8 VDC ±2%
- OVERVOLTAGE CUT-OFF 14.75 VDC
- OVERVOLTAGE RESUME: 14.5 VDC
- LOW STARTING BATTERY ALARM: 11.9 VDC
- NO-LOAD VOLTAGE DROP: 0.05 VDC Typ.
- FULL-LOAD VOLTAGE DROP: 0.2 VDC Typ.

## MECHANICAL SPECIFICATIONS



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# How To Order:

ORDER ONLINE at  
**www.LSLProducts.net**  
 (the preferred method for paying with a credit card)

...Or...

CALL US (TOLL-FREE) at  
**877-257-4655**