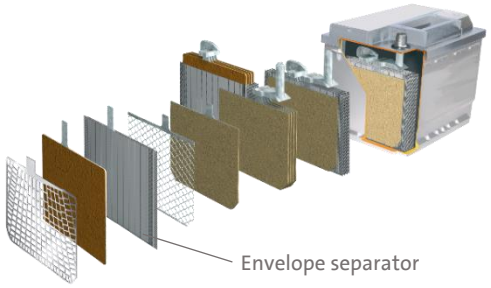
# Battery Technology

GOLD SILVER

## AUTOMOTIVE BATTERY TYPES

### Flooded

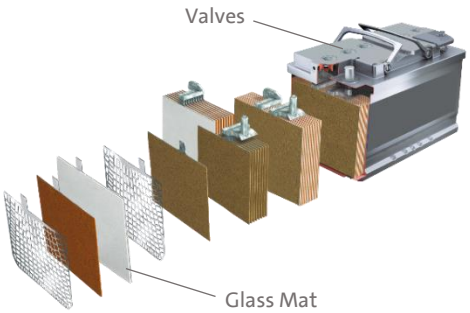
Traditional flooded batteries, sometimes called SLI (Starting Lighting and Ignition) or SLA (Sealed Lead Acid), have been around a long time and come in all shapes and sizes. They are called flooded because the electrolyte (acid) is free flowing. And because no water needs to be added to them, they are maintenance free.



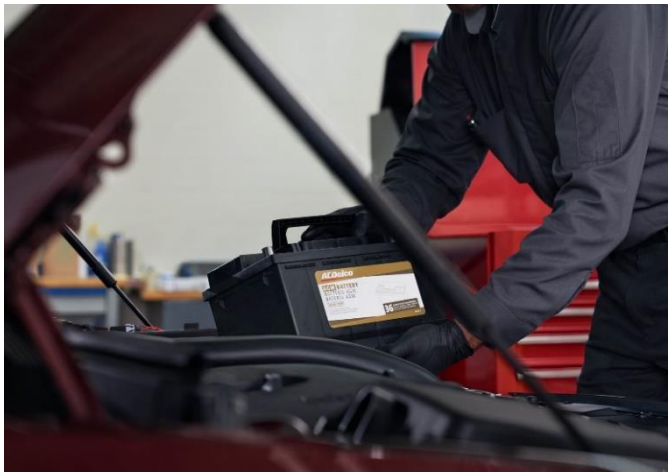

In automotive applications, an SLI battery's main purpose is the burst of energy needed for the starter to crank the engine. Once the engine is running, power for the vehicle's electrical systems is primarily supplied by the alternator; while the battery's reserves power some devices when in fuel saving modes or, of course, when the engine is off.

### AGM

Absorbent Glass Mat batteries (AGM), also known as Valve Regulated Lead Acid (VRLA), are increasingly specified as the Original Equipment battery of choice.




This is because their higher cycling and faster charging capabilities best meet the many electrical demands of today's vehicles, especially Stop-Start technology. The primary contributor to these enhanced cycling and charging characteristics is that the electrolyte is completely absorbed into the glass mats. By contrast, a traditional flooded battery cannot charge fast enough or cycle (drain/recharge) often or deep enough to keep up with a Stop-Start application.



### Testing is Key!

Avoid a no-start tow-in! Batteries can fail without much warning. In modern vehicles, you won't get a slow crank sound as a warning, it just won't start if the battery voltage is too low.

Because modern Stop-Start vehicles use their batteries to enable fuel saving modes, battery life can be shorter than in older vehicles that use traditional flooded batteries in simpler ways.

**Have your battery tested at every service visit!**

07-SS-0118-21EL

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## BATTERY SPECIFICATIONS

### CCA = Cold Cranking Amps

CCA is the Battery's 'quick burst' energy strength for starting the engine. Technically, this is the number of Amps the battery can deliver for 30 seconds at 0°F (-17.8°C) while maintaining 7.2 volts. Of course, it's been a long time since engines took so long to crank, and now modern vehicles have even more electrical demands. As a result, Reserve Capacity is becoming increasingly important.

### RC = Reserve Capacity

RC is the amount of 'slow use' energy a battery can supply to electrical devices, modules, and special electrical modes, especially when the engine is off. The number represents the number of minutes the battery can be discharged under a 25-amp load at 80°F (26.7°C) while maintaining 10.5 volts. More RC can help a battery last longer in modern vehicles that have high electrical demands. ACDelco offers several High Reserve batteries in various sizes.

William S. Knudsen in a 1930 Chevrolet

2009

2019

2024

- Electrical devices found in vehicles increased up to 3X between 2009 and 2019 and are projected to increase by up to 2X by 2024*
- Power consumed (kw) increased up to 2X from 2009 to 2019 and is projected to increase up to 2X by 2024*

*Independent study conducted by Clarios 2019; Comparing maximum devices in 2019 to minimum devices in 2009; Comparing minimum devices in 2019 to projected maximum devices in 2024

Talk to your ACDelco Sales Representative or go to ACDelco.com to learn more about the full line of Automotive Batteries with specifications and warranties to fit your need.

ACDelco Gold 42

ACDelco Gold 30

ACDelco Gold AGM

ACDelco Silver 18

Free replacement limited warranty to the original retail purchaser. See ACDelco.com for details.

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