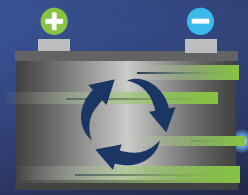


Uses and Applications of Essential Lead Batteries



Lead batteries are an irreplaceable link to connect, protect, transport and power our way of life. Without this essential battery technology, modern life would come to a halt. Lead batteries are used across a wide range of industries and applications from transportation to communication networks.



Transportation and Recreational Vehicles

- + Cars and trucks - start-stop, hybrid and electric vehicles
- + Charging (and fast charging) stations for EVs and e-bikes
- + Commercial vehicles
- + Motorcycles
- + Buses
- + Golf carts
- + RVs
- + Trains
- + UTVs and ATVs
- + Snowmobiles



Renewable Energy

- + Wind energy storage
- + Solar energy storage
- + Grid stabilization

Aerospace and Defense

- + Submarines
- + Tanks and other military vehicles
- + Artillery
- + Field auxiliary equipment
- + Aircrafts
- + Helicopters
- + Logistical support systems
- + Communication systems
- + Nuclear silos



Communication Networks

- + Cell tower uninterruptible power supply
- + Telecommunication center uninterruptible power supply
- + 5G and small cell
- + Central office and switching centers
- + Macro cells



Data Centers

- + Enterprise data centers
- + Colocation data centers
- + Cloud data centers
- + Managed services data centers

Logistics and Warehousing

- + Semitrucks
- + Delivery vehicles
- + Trains
- + Forklifts
- + Lift and pallet trucks
- + Automated guided vehicles
- + Ports
- + Ground support equipment
- + Floor cleaning equipment





Utilities, Industrial Power and Residential Power

- + Grid-scale storage
- + Microgrids
- + Smart grids
- + Off-grid
- + Frequency regulation
- + Load leveling
- + Peak load shifting
- + Peak load shaving
- + Tariff management
- + Time shift/storage
- + Residential and small commercial energy storage
- + Smart cities and remote cities
- + Charging (and fast charging) stations
- + Mobile power units (gensets)

Agriculture

- + Tractors
- + Lawn and garden mowers
- + Harvesters
- + Combines
- + Balers
- + Sprayers
- + Utility vehicles
- + Lawn and garden power tools

Medical

- + Hospitals
- + Ambulances
- + Wheelchairs
- + Medical carts
- + Medical devices
- + Emergency lighting systems
- + Helicopters



Security and Public Safety

- + Police vehicles
- + Fire trucks and fire support vehicles
- + Weather stations
- + Standby electrical power in critical emergency systems
 - Hospitals
 - Emergency communication systems
 - Emergency lighting systems
- + Customs and border patrol vehicles and equipment
- + Maritime GPS and support equipment



Marine and Watersports

- + Tankers
- + Submarines
- + Lighthouses
- + Buoys
- + Boats, cruise ships and yachts
- + Jet skis

Construction Equipment and Tools

- + Bulldozers
- + Excavators
- + Generators
- + Skid loaders
- + Scissor and boom lifts
- + Winches
- + Cranes
- + Welders
- + Backhoe loaders
- + Graders
- + Pavers
- + Air compressors
- + Sump pumps