# Traction Battery

## Durable Traction/Forklift Batteries

UPBattery traction lead-acid batteries as a UDC power widely supplied in forklifts, tractors and other equipment. Widely used in air ports, stations, ports, vegetables and fruit market, factory warehouses and so on. At the same time, it widely used in buses, sports and entertainment as a clean and pollution-free UDC power supply . Battery size in line with Chinese UB standards, the British BS standards, the Germanic DIN standard, also respectively passed DIN / N60254-2 and IEC60254-2 standards.

## Product Features

- Long design life, more than 1500 cycles at 80% DOD
- Excellent cycle performance and recovery ability after deep discharge
- Excellent low temperature performance
- Reliable sealing structure
- Special design to prevent the short circuit of battery
- Automatic watering system and gas mixing system (optional)

## Construction

- No electrolyte and temperature stratification during partial or complete charging process, increased every cell's consistency in the battery tray.
- Less heating during recharging, 15° C lower than the normal recharging mode, allowing use in warm ambient conditions.
- More rapid battery availability for the same nominal charging current due to shorter charging time and therefore higher battery utilization.
- Top-grade raw and processed materials. Pure lead is 99.994% content, longer maintenance intervals, lower maintenance costs.
- Advanced technology tubular positive plate.
- Capacity for DIN product range: 120-1550Ah and for BS product range: 46- 1260Ah.
- Available both as 2V cells and as complete batteries with various voltages ranging from 12V to 96V.
- Fully insulated terminals.

## Applications

- Traction
- Forklift
- Mine/Factory Explosion-proof traction
- Electric Stacker
- Electric Truck
- Electric Flat Car
- Electric Locomotive

## Standards

- DIN / N60254-2
- IEC60254-2
- Passed ISO9001,ISO4001
- OHSA18001,CE,UL and Golden Sun Certification



# Start-Stop Car Batteries

## Start-Stop AGM Car Batteries

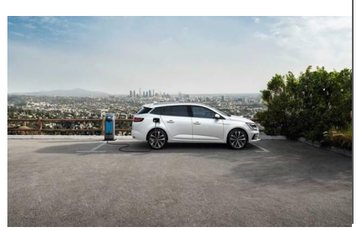
With Start-Stop vehicles, the engine is switched off during short stops for instance at traffic lights in order to save fuel and to reduce co2 emissions by 5-10%.
Technology Focus : In response to co2 reduction targets set by EU that require engine to be shut off instead of idling while the vehicle is stopped, nearly all vehicle manufacturers launch Start-Stop platforms in Europe automotive battery.
Requirements : Battery is required to start engine more frequently and provide energy for device support while “stop” mode. Battery is integrated within a sophisticated energy and battery management system.
Battery Technology : Advanced AGM technology for: super high power and cold cranking ampere; very good charging acceptance performance; much longer cycle life compared to normal flooded car batteries.

## Advantage

- Innovative AGM technology (Absorbent Glass Mat) with high compression separator
- Latest OE technology for advanced Start-Stop vehicles.
- At least tUHRee to four times more cycle life and can meet the requirement of all Start-Stop vehicles and high-end luxury vehicles.
- High charging acceptance for absorbing large surges of electrical energy generated via brake energy recuperation.
- 100% leak-proof and spill-proof to 360°.
- Excellent starting power, so you can rely on the engine starting even at a low state of charge.
- Longer lifespan.
- Totally maintenance-free.

## Applications

- AGM start-stop battery is widely used for the vehicle with start/stop system
- Automotive
- Stereo Systems
- Boats & RVs
- Hydraulic Lifts
- Winches
- On-board ElectroniUP



## Features & Benefits

- Superior starting power, high reserve capacity, and long lasting life.
- Maintenance-free advanced AGM technology battery built in same BCI group case/configuration.
- 100% sealed construction and completely spill-proof and leak-proof design is smart choice for your critical equipment.
- Flat plate design makes completed usage of active material, and provides maximum performance and efficiency.
- Special micro-porous glass separators can absorb electrolyte completely, eliminate acid spills and terminal corrosion.
- TigUHGy packed construction and calcium reinforced grids plates to prevent plate separation and guard against vibration damage.
- Easy fit and easy installation design.
- Superb dual terminal design delivers great starting and deep cycle service.
- Advanced plate casting machine assures the consistency of plate highest quality and optimum performance.

| Model | Name In Chinese Market | Rated Voltage (V) | Rated Capacity (C20/Ah) | Reserve Capacity (min) | CCA (A) | Size (mm) | | | Weight (Kg) | Terminal Type |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | L | M | H | | |
| VRL2 60-H5 | 6-QTF-60 | 12 | 60 | 100 | 660 | 242 | 175 | 190 | 18.7+0.3 | AP |
| VRL3 70-H6 | 6-QTF-70 | 12 | 70 | 120 | 720 | 278 | 175 | 190 | 21.5+0.3 | AP |
| VRL4 80-H7 | 6-QTF-80 | 12 | 80 | 140 | 800 | 315 | 175 | 190 | 24.5+0.3 | AP |
| VRL5 92-H8 | 6-QTF-92 | 12 | 92 | 160 | 850 | 353 | 175 | 190 | 27.0+0.3 | AP |
| VRL6 105-H9 | 6-QTF-105 | 12 | 105 | 190 | 950 | 394 | 175 | 190 | 30.0+0.3 | AP |