

# STARMAX



## **AUTOMOTIVE** BATTERIES

LITHIUM-ION HEAVY TRUCK DUAL PURPOSE BATTERY

The world's leading battery brand



[www.starmaxbatteries.com](http://www.starmaxbatteries.com)

# LITHIUM-ION HEAVY TRUCK DUAL PURPOSE BATTERY

## Application

For applications that require both strong cranking power and low-amp cycling service to meet the extended auxiliary power needs of electrical accessories such as air conditioner etc.



## Special Features

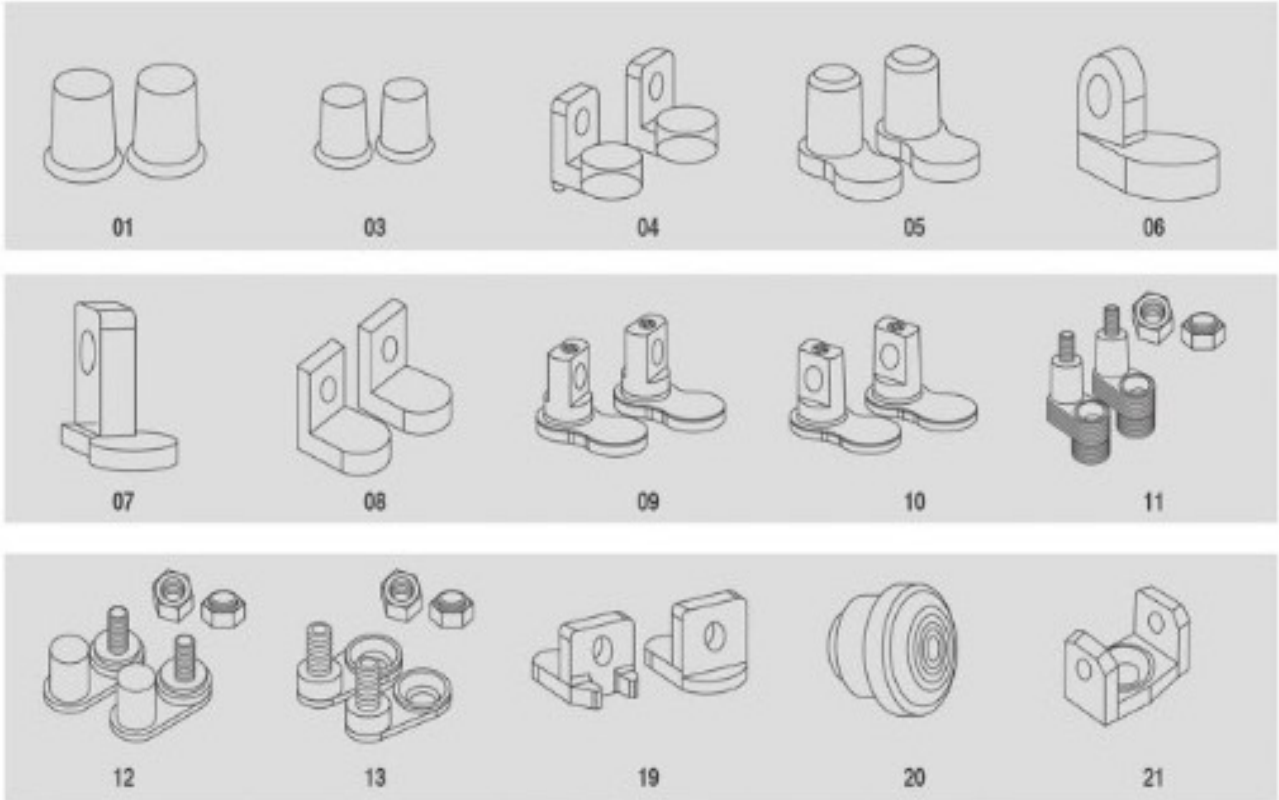
- ✓ Longer service life: 5+ years' service life.
- ✓ Support longer parking time power supply: over 9 hours during the day and longer at night.
- ✓ Faster charging: strong charging receiving capacity. Charging from 20% to 95% only needs 1-2 hour.
- ✓ Intelligent power management: BMS intelligent management keeps 20% of the minimum starting power to avoid excessive power loss.
- ✓ No need to warm up the vehicle for low-temperature starting: ultra-low temperature (-40°C) Zero Delay continuous starting.
- ✓ High and low temperature resistance: discharge working temperature range "-40°C ~ 65°C".
- ✓ Password anti-theft and positioning: double security protection of password and Bluetooth.
- ✓ Intelligent diagnosis: self-detection, remote monitoring of battery health status in the background.
- ✓ Light weight: 1/3 of the weight of similar lead-acid battery.
- ✓ Strong vibration resistance: suitable for all kinds of rugged road conditions.

## SPECIFICATIONS

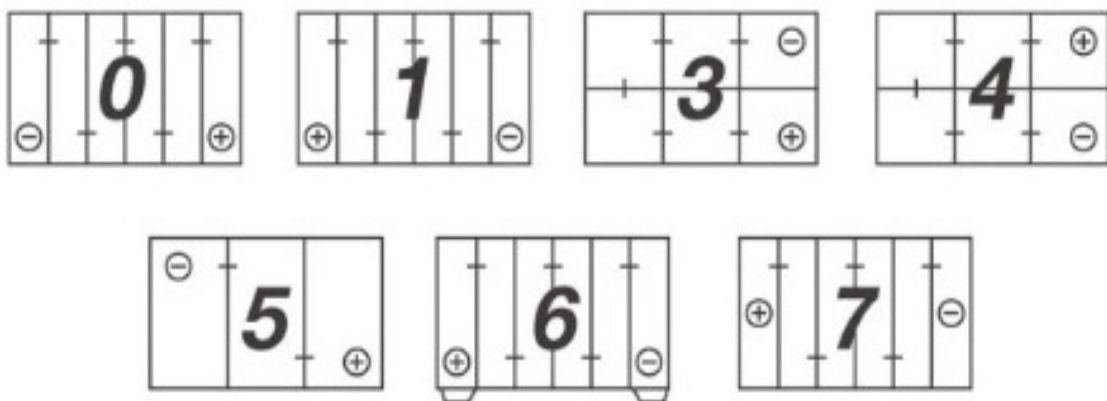
Type	Voltage (V)	Capacity (Ah)	Dimensions(mm) L*W*H	CCA(-18°C)(A)	Weight(kg)
24V LiSB CCA1000	24	100	541*230*216	1000	≤30
24V LiSB CCA1100	24	200	530*433*220	1100	≤55








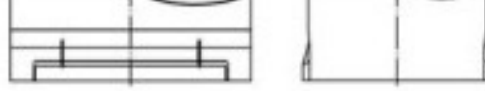
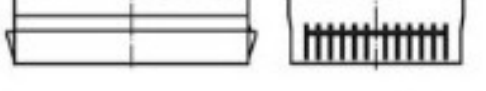
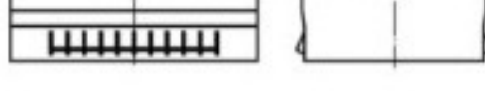

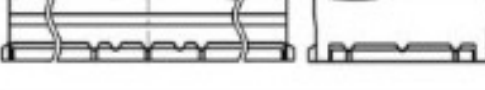
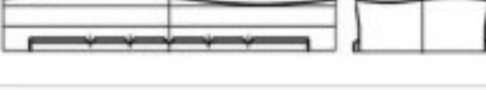
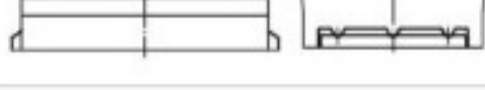
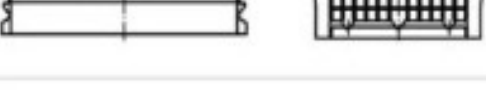



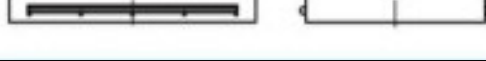

# TERMINAL



# LAYOUT



# HOLD DOWN

B00		B01	
B02		B03	
B04		B05	
B06		B07	
B08		B09	
B10		B11	
B12		B13	
B14		B15	
B16		B17	

# BATTERY CARE AND MAINTENANCE



- The vent hole on both sides of the battery cover or on the vent plug should be checked regularly. Keep the holes from being blocked by dust and ice water to avoid poor exhaust, shell deformation and burst



- When charging batteries, work in a well-ventilated area. Always turn battery charger off before disconnecting battery
- Battery usage should be discontinued if the battery terminals are burnt.
- We recommend constant voltage charging instead of constant current charging for the battery



- When testing battery performance, start with reserve capacity
- When servicing a sealed maintenance free (SMF) battery, check the State of Charge Indicator. This gives you a snap shot of the battery's condition and whether the battery needs to be charged or replaced. The vehicle may still start the engine although the indicator outlines to replace the battery. If the State of Charge Indicator advises 'Replace Battery' it is important that the battery is replaced as the electrolyte levels may be below the plates which can lead to an internal explosion



- If you have a maintainable battery, it is important to check if the battery has sufficient electrolyte covering the battery plates. If topping up is required, do not over fill as the fluid levels will rise when the battery is fully charged and may overflow. Top up using distilled or demineralized water and never fill with sulphuric acid
- Check the battery's state of charge. Most batteries have a State of Charge Indicator on top of the battery that will give you an on the spot diagnosis of the battery condition. However, a more reliable way to check is with a voltmeter to determine the stabilized voltage or if the vent caps are removable a hydrometer to determine the specific gravity (SG) of the electrolyte



- Usually it takes 3 to 5 seconds to start a car at first time. The restarting should be at intervals of more than 15 seconds. If the car fails to be start after many times, check if there is any damage on the battery or the circuit. This situation is common in winter
- For batteries used in seasonal applications and stored long term, fully recharge the battery prior to storing. Check the state of charge or voltage regularly. Should the voltage drop below 12.5V, recharge the battery. It is important to check the battery completely before reconnecting to electrical devices
- Keep the battery top clean and dry. Apply either petroleum jelly or Vaseline to cable clamps and terminals for proper lubrication and added protection
- Inspect the battery case for obvious signs of physical damage or warpage. This usually indicates the battery has been overheated or has been overcharged

## WARNING

**01**

Battery acid can cause burns. Please keep away from children. Suitable hand, eye and face protection and protective clothing must be worn. If in the eyes, hold eyelids apart and flush the eye continuously with running water or contact a doctor immediately. If skin or hair contact occurs, remove contaminated clothing and flush skin or hair with running water.

**02**

Keep away from heat source and open fire. Keep ventilated when charging or using batteries to avoid burst hurt.

**03**

Do not open the battery to avoid explosion.

**04**

Do not use metal tools to connect positive and negative terminal, otherwise the battery will short circuit and cause fire or explosion.

**05**

Do not Discard the batteries. Insulate the +ve and -ve Terminals with insulating tape and take them to a recycling facility.

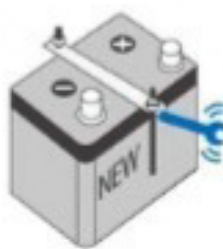
## HOW TO REPLACE BATTERY



Switch off the engine and keep sparks, flames, cigarettes away from battery at all times before removing the old battery.



Disconnect the negative terminal first and avoid short-circuit caused by tools when removing old battery.

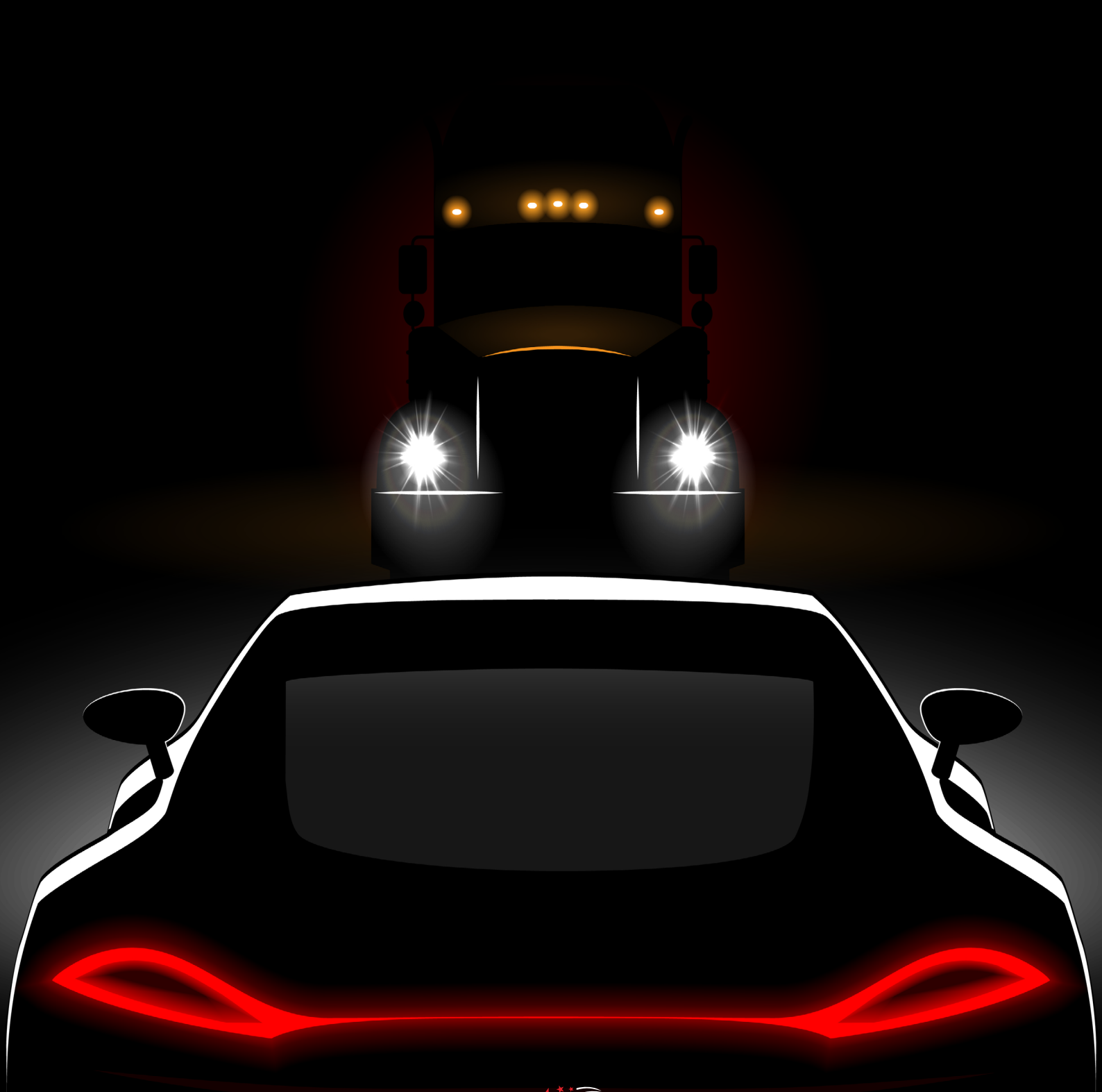


Clean corroded parts in tray and cable clamps before installation of new battery.



Connect the positive terminal first and check the terminal clamps for tight fit when installing new battery.





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