

# STARMAX



## **AUTOMOTIVE** BATTERIES

AGM START-STOP BATTERY

The world's leading battery brand



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

# AUTOMOTIVE AGM START-STOP BATTERY



## Application

The Starmax AGM Start-Stop Battery is the perfect choice for vehicles with high energy demands. This can be due to heavier usage, cold winters, hot summers or multiple accessories and equipment.

## Special Features

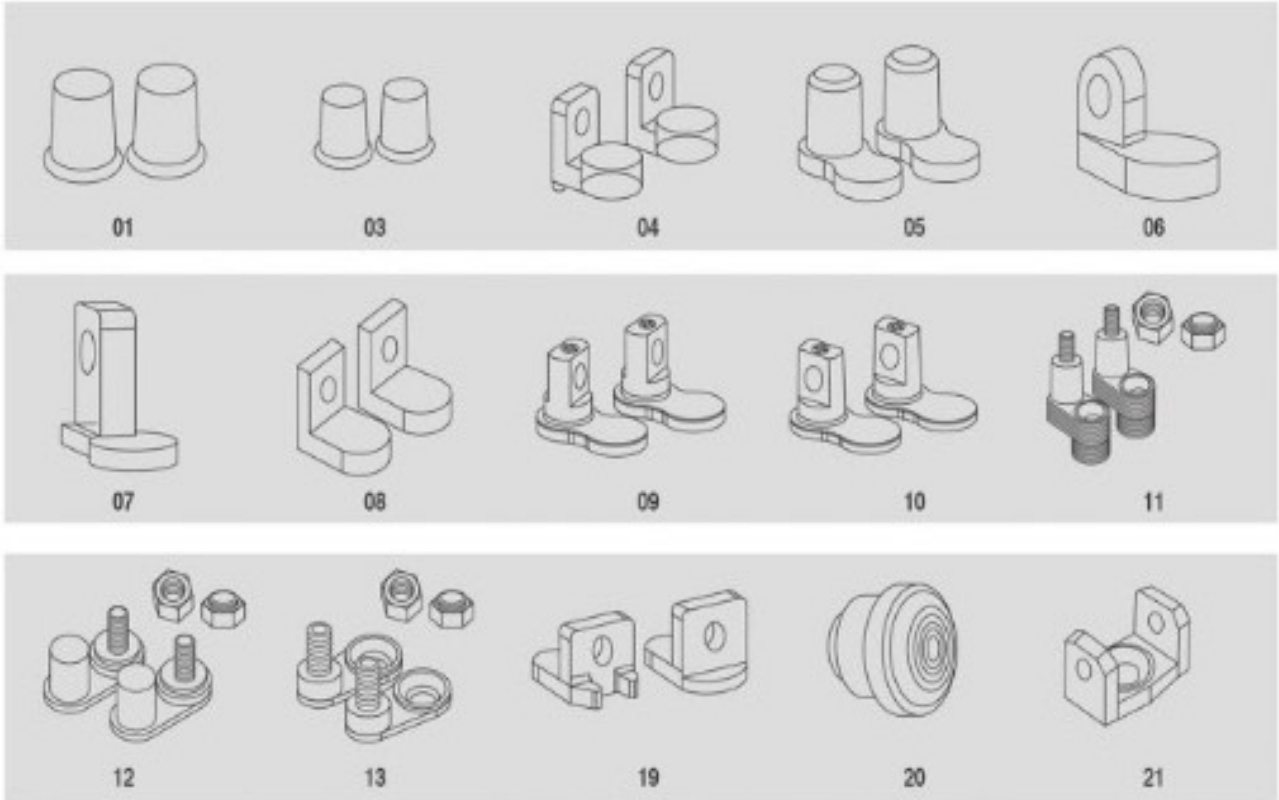
- ✔ Durable, 3 times cycling life.
- ✔ Compared with ordinary batteries, the start current is 30% higher, suitable for frequent start and stop.
- ✔ Excellent charging acceptance and fast recharging.
- ✔ 360° safe placement, no risk of leakage.

## SPECIFICATIONS

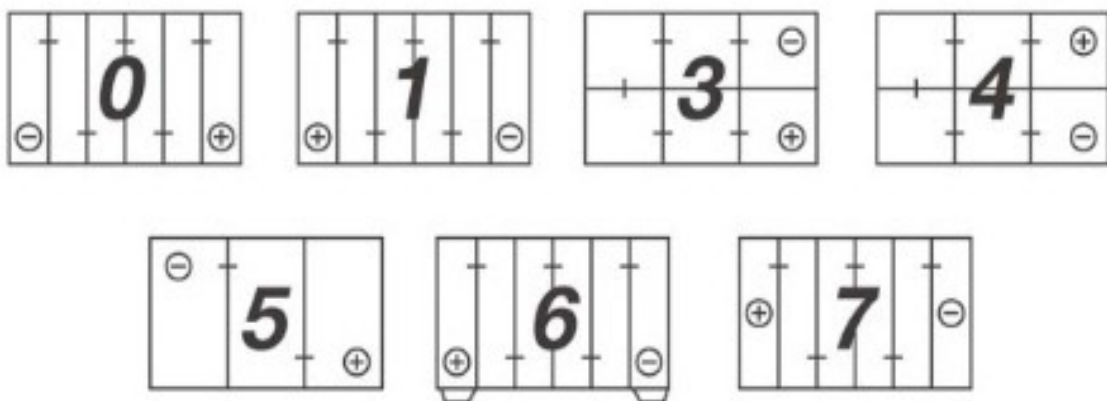
Type	20Hr (Ah)	CCA/SAW (A)	Dimensions(mm) L*W*H	Terminal (Layout /Type)	Hold Down	Weight (kg)
VRL0 40 H3	40	420	175*175*190	0/1	B13	12
VRL1 50 H4	50	570	207*175*190	0/1	B13	15
VRL2 60 H5	60	640	242*175*190	0/1	B13	17.6
VRL3 70 H6	70	760	278*175*190	0/1	B13	20.5
VRL4 80 H7	80	800	315*175*190	0/1	B13	23.5
VRL5 92 H8	92	850	353*175*190	0/1	B13	26.5
VRL6 105 H9	105	950	394*175*190	0/1	B13	29.5
AUX14	12	1800	151*88*146	1/?	B0	5








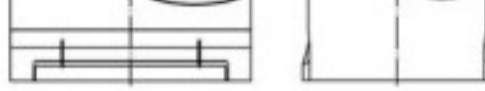
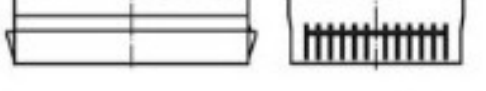
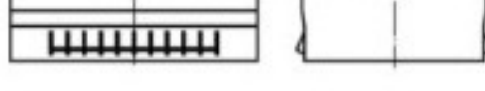

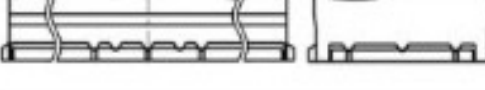
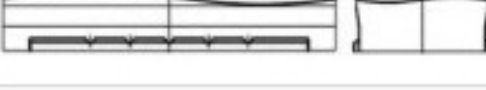
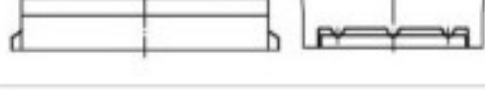
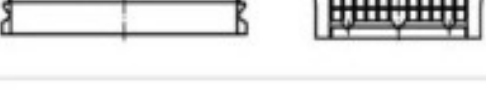



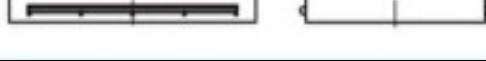

# TERMINAL



# 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.

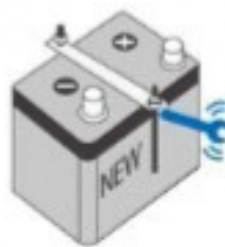
## HOW TO REPLACE BATTERY



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



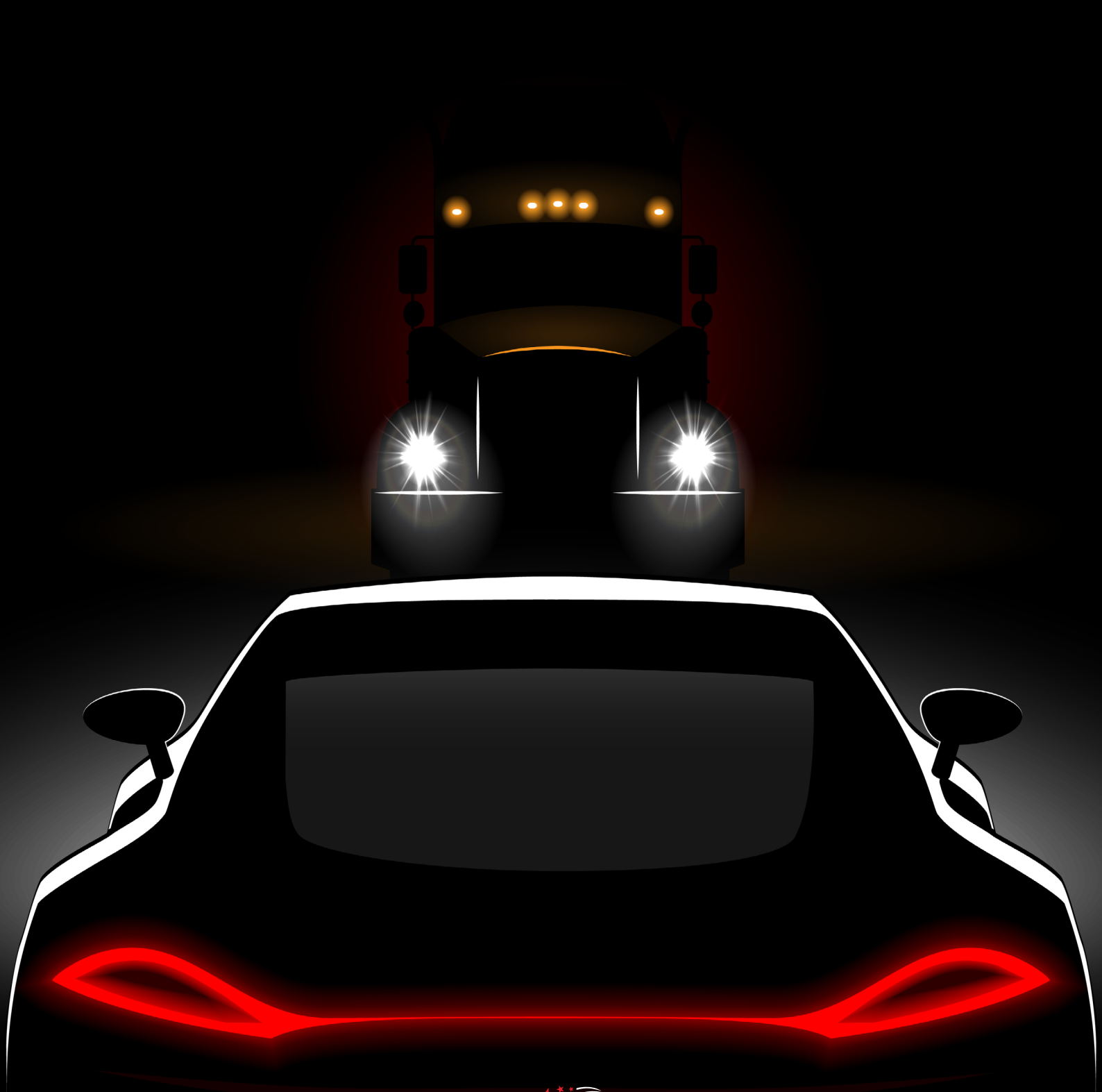
Disconnect the negative terminal first and avoid short-circuit caused by tools when removing old battery.



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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