

# STARMAX



## **AUTOMOTIVE** BATTERIES

ELECTRIC FORKLIFT BATTERY

The world's leading battery brand



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

## Application

The electric forklift battery is suitable for electric traction and material handling equipment such as electric forklifts, electric carriers, and etc.



## Special Features

- ✔ Excellent product performance, C5 capacity surplus can exceed by 8%~10% of rated capacity.
- ✔ Low self-discharge rate, high charge retention capability which can reach more than 95% of the rated capacity.
- ✔ High rate discharge performance is increased by 15% with tin-coated copper terminals.
- ✔ Good cyclic durability which can reach 1300-1500 cycles under 75% DOD.

## SPECIFICATIONS

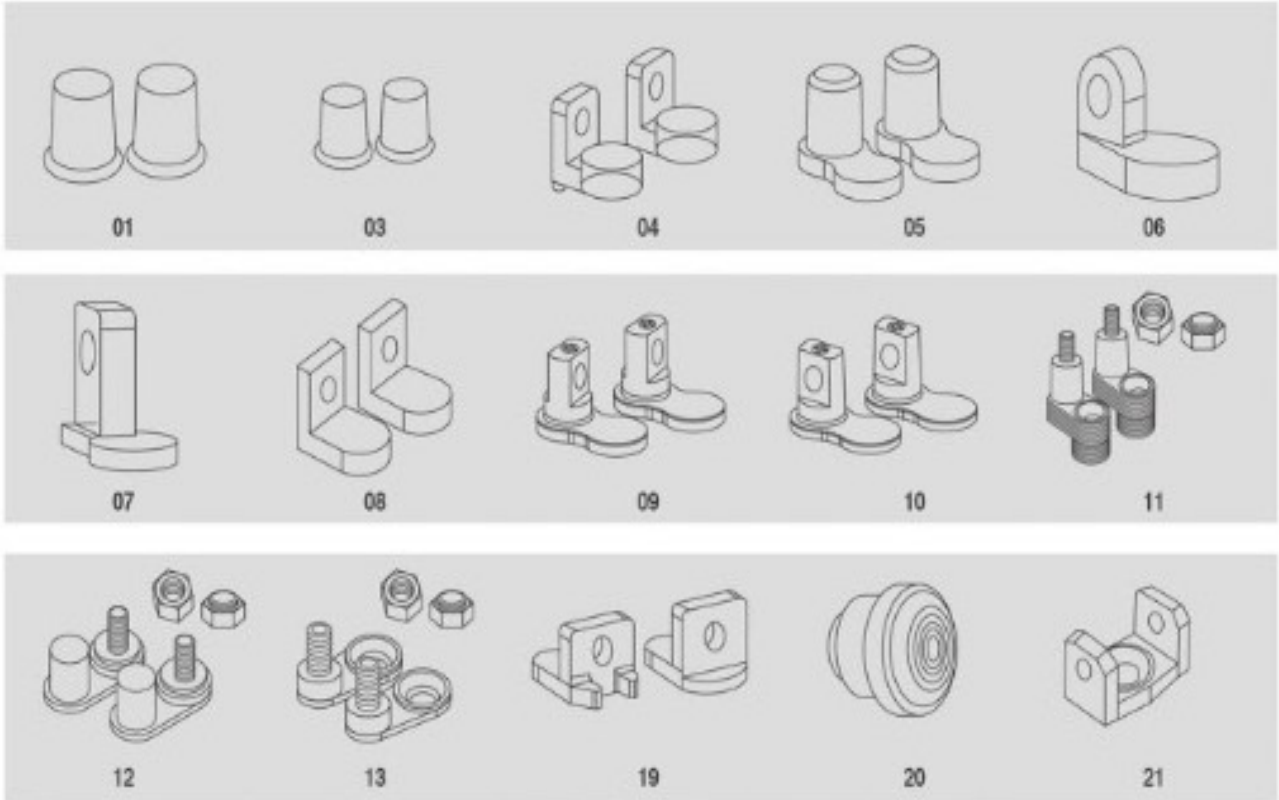
Type	Voltage (V)	Capacity (C5 Ah)	Dimensions(mm) L*W*H
2PzB100	2	100	45*158*410
3PzB150	2	150	61*158*410
4PzB200	2	200	77*158*410
5PzB250	2	250	93*158*410
6PzB300	2	300	109*158*410
7PzB350	2	350	125*158*410
8PzB400	2	400	141*158*410
9PzB450	2	450	157*158*410

Type	Voltage (V)	Voltage (V)	Voltage (V)
10PzB500	2	500	173*158*410
2PzB110	2	110	45*158*435
3PzB165	2	165	61*158*435
4PzB220	2	220	77*158*435
5PzB275	2	275	93*158*435
6PzB330	2	330	109*158*435
7PzB385	2	385	125*158*435
8PzB440	12	440	141*158*435
9PzB495	2	495	157*158*435
10PzB550	2	550	173*158*435
2PzB120	2	120	45*158*461
3PzB180	2	180	61*158*461
4PzB240	2	240	77*158*461
5PzB300	2	300	93*158*461
6PzB360	2	360	109*158*461
7PzB420	2	420	125*158*461
8PzB480	2	480	141*158*461
9PzB540	2	540	157*158*461
10PzB600	2	600	173*158*461
2PzB130	2	130	45*158*483
3PzB195	2	195	61*158*483
4PzB260	2	260	77*158*483
5PzB325	2	325	93*158*483
6PzB390	2	390	109*158*483
7PzB455	2	455	125*158*483
8PzB520	2	520	141*158*483
9PzB585	2	585	157*158*483
10PzB650	2	650	173*158*483
2PzB140	2	140	45*158*510
3PzB210	2	210	61*158*510
4PzB280	2	280	77*158*510
5PzB350	2	350	93*158*510
6PzB420	2	420	109*158*510

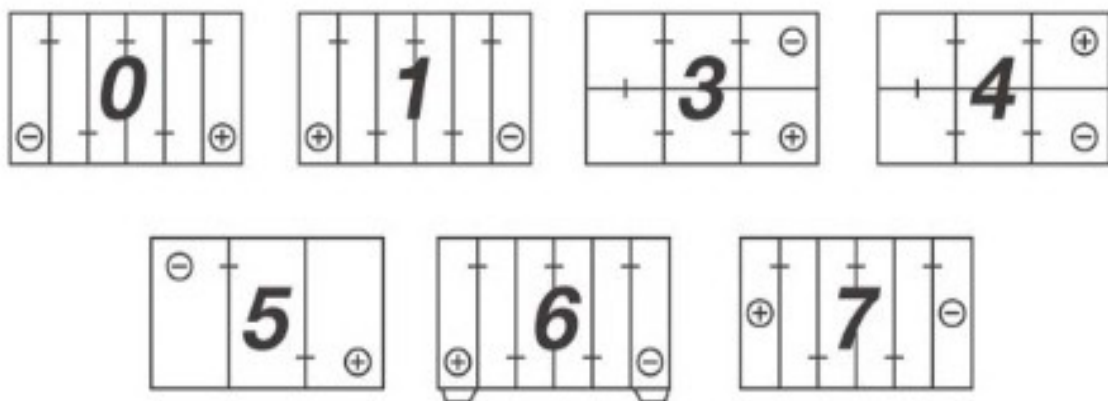
Type	Voltage (V)	Voltage (V)	Voltage (V)
7PzB490	2	490	125*158*510
8PzB560	2	560	141*158*510
9PzB630	2	630	157*158*510
10PzB700	2	700	173*158*510
13PzB910	2	910	221*158*510
2PzB160	2	160	45*158*567
3PzB240	2	240	61*158*567
4PzB320	2	320	77*158*567
5PzB400	2	400	93*158*567
6PzB480	2	480	109*158*567
7PzB560	2	560	125*158*567
8PzB640	2	640	141*158*567
9PzB720	2	720	157*158*567
10PzB800	2	800	173*158*567
2PzB180	2	180	45*158*622
3PzB270	2	270	61*158*622
4PzB360	2	360	77*158*622
5PzB450	2	450	93*158*622
6PzB540	2	540	109*158*622
7PzB630	2	630	125*158*622
8PzB720	2	720	141*158*622
9PzB810	2	810	157*158*622
10PzB900	2	900	173*158*622
2PzB200	2	200	45*158*671
3PzB300	2	300	61*158*671
4PzB400	2	400	77*158*671
5PzB500	2	500	93*158*671
6PzB600	2	600	109*158*671
7PzB700	2	700	125*158*671
8PzB800	2	800	141*158*671
9PzB900	2	900	157*158*671
10PzB1000	2	1000	173*158*671
2PzB220	2	220	45*158*722

Type	Voltage (V)	Voltage (V)	Voltage (V)
3PzB330	2	330	61*158*722
4PzB440	2	440	77*158*722
5PzB550	2	550	93*158*722
6PzB660	2	660	109*158*722
7PzB770	2	770	125*158*722
8PzB880	2	880	141*158*722
9PzB990	2	990	157*158*722
10PzB1100	2	1100	173*158*722






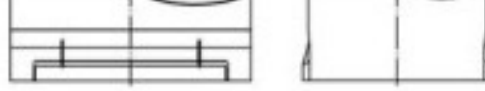
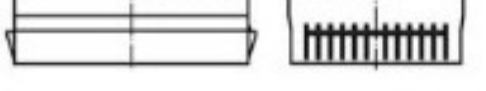
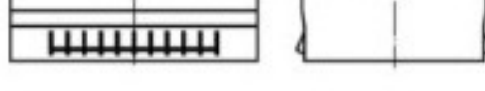

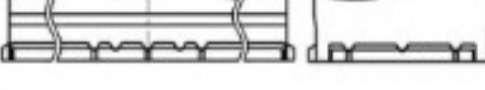
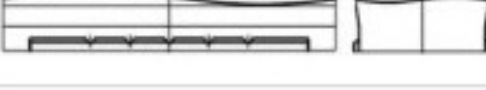
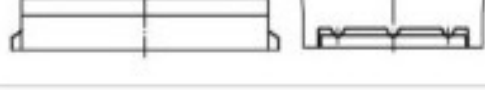
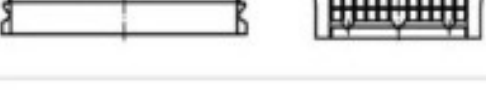





# TERMINAL



# 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.

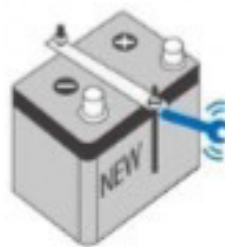
## HOW TO REPLACE BATTERY



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



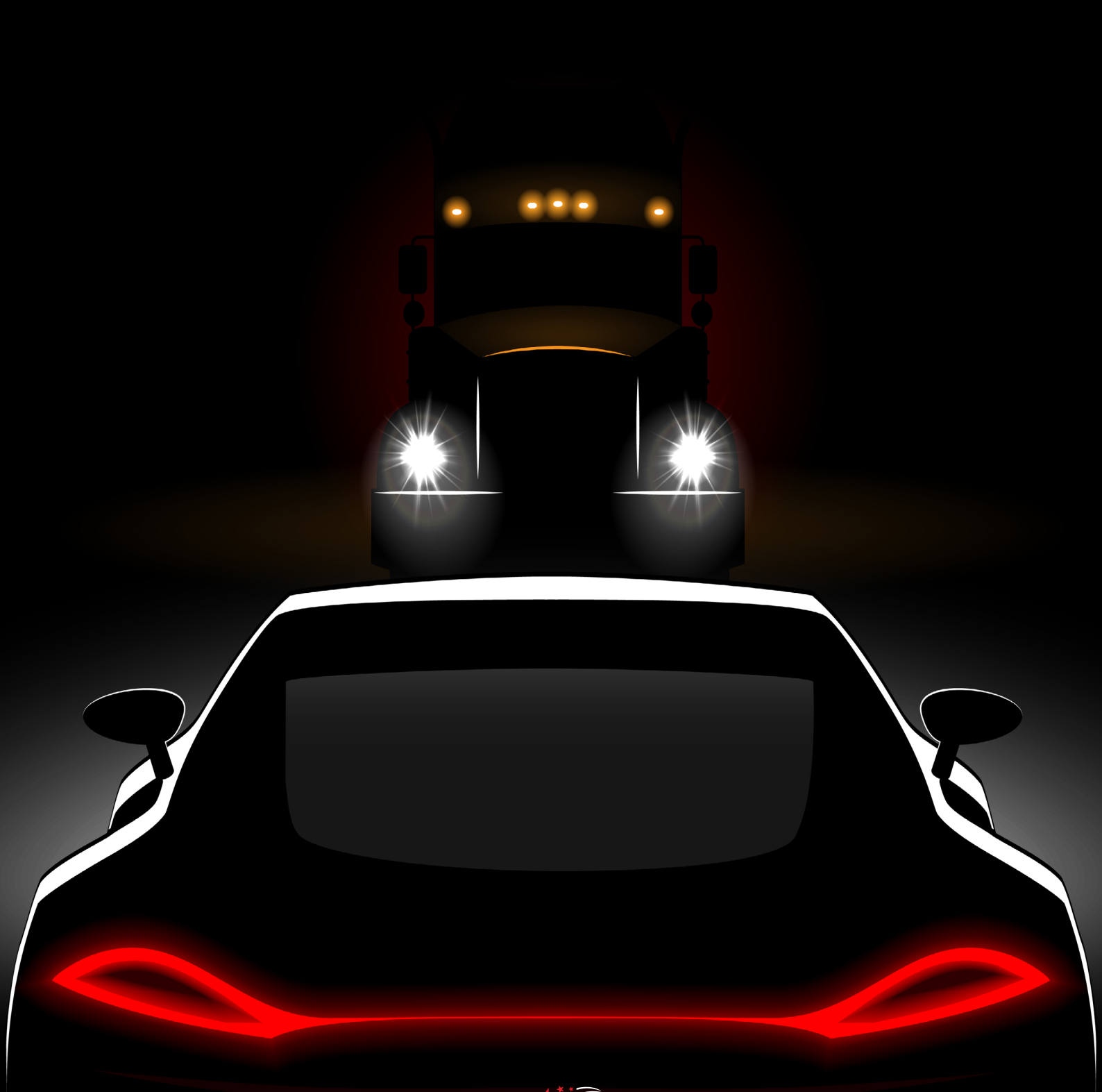
Disconnect the negative terminal first and avoid short-circuit caused by tools when removing old battery.



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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