

# BATTERY MANUFACTURER



**JYC** • CHINA  
MALAYSIA • WORLD



JYC BATTERY MANUFACTURER CO., LTD.  
JYC BATTERY SDN BHD.

☎ +86 (020) 3123 9309 ✉ sales@jycbattery.com 🌐 www.jycbattery.com 🌐 www.jycbattery.my

📍 Building 2, No. 34, Xialiang Shakenghe Road, Baiyun District, Guangzhou, China

📍 Wengcheng Industrial Park, Wengyuan Shaoguan, Guangdong, China

📍 No.8, Lot 3302, Jalan Permata 2, Arab Malaysian Industrial Park, 71800 Nilai, Negeri Sembilan, Malaysia



JYC BATTERY MANUFACTURER CO., LTD.  
JYC BATTERY SDN BHD.

**2X**  
POWER  
+  
**3X**  
THE LIFE  
OF  
CONVENTIONAL  
BATTERIES

The only battery designed with...  
Double the power and triple the  
lifespan of conventional batteries

# PURE POWER

Regardless of where you need a battery, it must be one you can trust and rely on during challenging times - whether on the road, on the track, in the mountains, or out at sea.

With over a million sold and utilized world wide, you can be confident in choosing an JYC battery. Each JYC battery, engineered with Continuous Casting Direct Rolling technology, delivers up to double the power and triple the lifespan of any other conventional battery on the market today!



start/stop-  
technology



long  
cycle lifetime



high cold-cran-  
king performance



high thermal  
stability



ideal  
spill-proofness



capable of  
recuperation

Twice the power and three times the life  
span of any conventional battery

**20% Greater Capacity than  
Nominal Value**

Large battery capacity with 1.2 times greater reserve capacity (25A discharge test) than the nominal value

**Improved Temperature  
Resistance by 20%**

Stable performance with high and low-temperature resistance ranging from -40°C to 70°C; -18°C low-temperature start (CCA) exceeds national standard value; 20% increased room temperature start (CA)

**Extended Service Life  
by 3 Times**

Ultra-long service life, easily handling frequent start and stop systems

**Internal Resistance 15%  
Lower than National  
Standard**

High tin alloy plate (with higher tin content) adoption reduces internal conduction loss, resulting in 15% lower impedance than the national standard

**Vibration Resistant**

Exceptional protection against high-impact shocks and vibrations

**20% Faster Charging Speed**

Unique lead-carbon technology formula and new lead alloy formula, suitable for cars with OPTED start-stop systems



**1 Through The  
Partition Welding  
(TTP) Process:**

Effectively reduces battery's internal resistance, provides excellent high-power discharge performance, and adheres to the lightweight trend

**2 Advanced  
Continuous Casting,  
Rolling, and Punching  
Process (CCDR):**

Produces fine, high-density metal grain structure; the grid boasts excellent mechanical properties, superior corrosion resistance, and is environmentally friendly, meeting clean production requirements

**3 Compressed AGM  
Plate Separators:**

Extreme leak-free vibration resistance, even when the battery is installed on its side

**4 Lead  
Material  
Terminals:**

Ensure secure, corrosion-free cable connections





**350,000**  
Square Meters  
Workshops

**2,000**  
Square Meters  
office Building

**5,000**  
Square Meters  
R&D Building



Over  
**1500+**  
Workers With  
**56+**  
R&D Personnel



**42**  
Automatic Lines



**32**  
Million Units/year



**5.5**  
Million KVAH/year

## Certificates



EN 50342-1



IATF16949



CCS



ISO9001



ISO45001

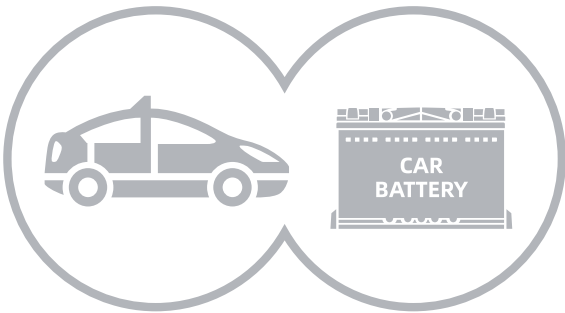
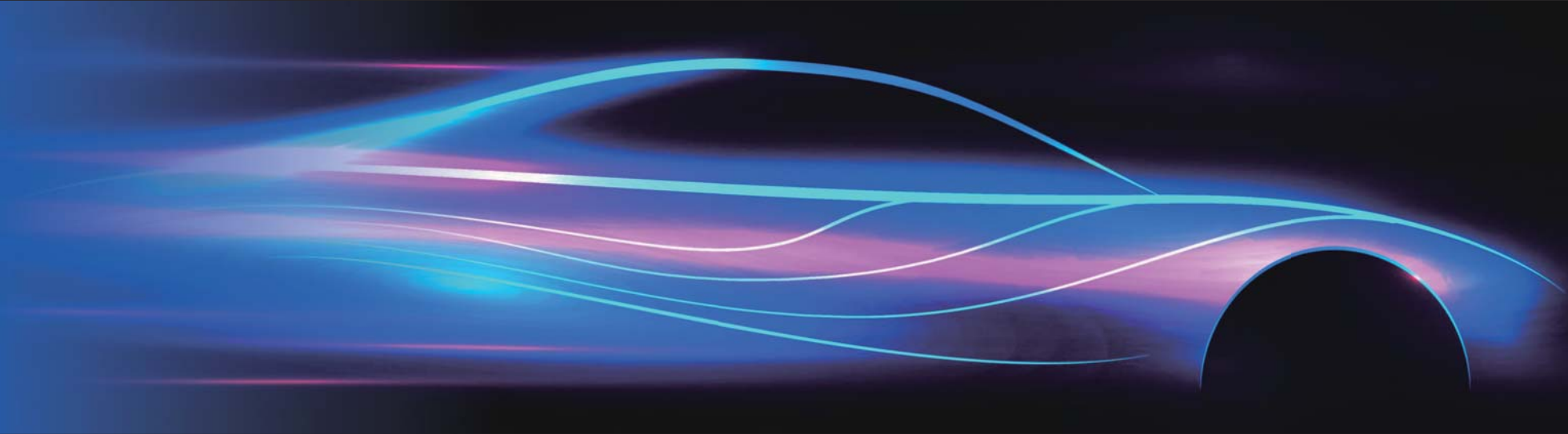


ISO14001



# JYC START-STOP BATTERY

## AGM - EFB



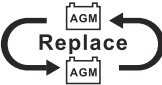
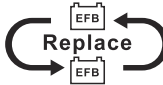
### START STOP VEHICLES

### TRADITIONAL

#### ADVANCED START-STOP

#### BASIC START-STOP

#### MAINTENANCE-FREE BATTERY

| START-STOP SYSTEM                                 | AGM SERIES   | EFB SERIES  | MF SERIES |
|---|--|---|-----------|
| REPLACEMENT IN VEHICLES WITH START & STOP ENGINES |  <b>MANUFACTURER RECOMMENDATION</b><br>Change with same type |  <b>MANUFACTURER RECOMMENDATION</b><br>Change with same type | X         |
| REPLACEMENT IN TRADITIONAL ENGINES VEHICLES WITH  | ✓  | ✓   | ✓         |
| BRAKING ENERGY RECOVERY SYSTEM                    | ✓  | X   | X         |
| URBAN USE   | ★ ★ ★ ★ ★  | ★ ★ ★ ★ ☆   | ★ ★ ☆ ☆ ☆ |
| CYCLING APTITUDE                                  | ★ ★ ★ ★ ★  | ★ ★ ★ ★ ☆   | ★ ★ ☆ ☆ ☆ |
| CHARGE ACCEPTANCE                                 | ★ ★ ★ ★ ★  | ★ ★ ★ ★ ☆   | ★ ★ ★ ☆ ☆ |
| CO <sub>2</sub> REDUCTION                         | 4% - 10%   | 2% - 5%   | X         |
| REDUCED CONSUMPTION                               | 4% - 10%   | 2% - 5%   | X         |

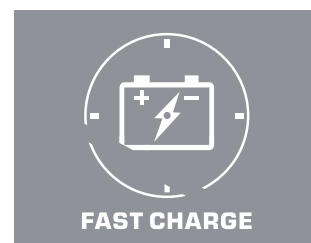


# AGM START-STOP CAR BATTERY



## FEATURES

- Start-stop Technology
- Reliable And Durable
- High Cycle Stability
- Absolutely Maintenance-free
- Ready To Install And Start
- Original Equipment Quality
- Integrated Carrying Handle



## ADVANTAGES





- 100000 TIMES** Frequent Start And Stop More Than
- 20%** Charging Speed Increased By
- 15%** Internal Resistance Lower Than The National Standard By

- 3 TIMES** Extend Service Life
- 3%** Self-discharge Rate is Less Than
- 20%** Improve Temperature Resistance

## RECOMMENDED FOR:

- Hybrid Car, Passenger Cars, Bus, Vans, RV, Motorhome, Truck, Tractor with Start-Stop systems.
- Ideal for vehicles with large electrical loads(DVD players, navigation systems, heated seats, power doors, etc), vehicles used for frequent short trips or in stop-n-go traffic and vehicles that sit unused for days or weeks at a time.
- Highest cold cranking amperes for engine starts, even reliable during cold winter temperatures.
- Optimal solution for partial state of charge operation

## SPECIFICATIONS

| Model        | BCI Group | EN | DIN | Rated Capacity C20(AH) | RC (min) | CCA (-18℃) | Hold Down | Layout  | Maximum Overall Dimensions |       |       |      |        |      | Approx. Weight |       |
|--------------|-----------|----|-----|------------------------|----------|------------|-----------|---|----------------------------|-------|-------|------|--------|------|----------------|-------|
|              |           |    |     |                        |          |            |           |   | Length                     |       | Width |      | Height |      | kg             | lbs   |
|              |           |    |     |                        |          |            |           |   | mm                         | in    | mm    | in   | mm     | in   |                |       |
| AGM 12V60Ah  | 47        | L2 | H5  | 60                     | 105      | 660        | B13       |    | 242                        | 9.53  | 175   | 6.89 | 190    | 7.48 | 17.50          | 38.58 |
| AGM 12V70Ah  | 48        | L3 | H6  | 70                     | 130      | 760        | B13       |    | 278                        | 10.94 | 175   | 6.89 | 190    | 7.48 | 21.00          | 46.29 |
| AGM 12V80Ah  | 94R       | L4 | H7  | 80                     | 155      | 800        | B13       |  | 315                        | 12.40 | 175   | 6.89 | 190    | 7.48 | 23.10          | 50.93 |
| AGM 12V92Ah  | 49        | L5 | H8  | 92                     | 180      | 850        | B13       |  | 353                        | 13.90 | 175   | 6.89 | 190    | 7.48 | 25.60          | 56.43 |
| AGM 12V105Ah | 95R       | L6 | H9  | 105                    | 208      | 950        | B13       |  | 394                        | 15.51 | 175   | 6.89 | 190    | 7.48 | 28.50          | 62.83 |

Notice: The Specifications are subject to change with or without notice



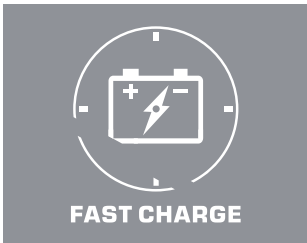


# EFB START-STOP CAR BATTERY



## FEATURES

- Start-stop Technology
- Reliable And Durable
- High Cycle Stability
- Absolutely Maintenance-free
- Ready To Install And Start
- Original Equipment Quality
- Integrated Carrying Handle



## ADVANTAGES

- **Low Self-discharge**  
The self discharging of EFB battery is low.
- **Deep-Cycling Performance**  
The technology provides two-times the deep-cycling performance and partial state of charge found in conventional maintenance-free batteries.

- **High Starting Power in Low Temperature**  
Suitable for frequent starting.
- **LONG CYCLIC LIFE**  
EFB battery has low self-discharge and long cyclic life. Conventional maintenance-free batteries can be used for 2 to 3 years, while EFB batteries can be used for 3 to 5 years.

## RECOMMENDED FOR:

- Micro Hybrid vehicles with entry level Start-Stop systems
- Wide car park coverage for EU and Asian models. Range features 2 types DIN and 2 types JIS sizes
- Ideal compatibility with standard power train vehicles that make lots of regular short journeys
- Optimal solution for partial state of charge operation

## SPECIFICATIONS

| Model           | Capacity (AH) | CCA (-18 °C) | Rated Voltage (V) | Hold Down | Layout  | Terminals | Maximum Overall Dimensions |       |       |      |        |      | Appox. Weight |      |
|-----------------|---------------|--------------|-------------------|-----------|---|-----------|----------------------------|-------|-------|------|--------|------|---------------|------|
|                 |               |              |                   |           |   |           | Length                     |       | Width |      | Height |      | kg            | lbs  |
|                 |               |              |                   |           |   |           | mm                         | in    | mm    | in   | mm     | in   |               |      |
| L2 EFB 12V60AH  | 60            | 640          | 12                | B13       |    | 01        | 242                        | 9.53  | 175   | 6.89 | 190    | 7.48 | 15.6          | 34.4 |
| L3 EFB 12V70AH  | 70            | 700          | 12                | B13       |    | 01        | 278                        | 10.94 | 175   | 6.89 | 190    | 7.48 | 17.9          | 39.5 |
| L2 EFB 12V68AH  | 68            | 700          | 12                | B13       |    | 01        | 242                        | 9.53  | 175   | 6.89 | 190    | 7.48 | 17            | 37.5 |
| L3 EFB 12V75AH  | 75            | 760          | 12                | B13       |   | 01        | 278                        | 10.94 | 175   | 6.89 | 190    | 7.48 | 19.1          | 42.1 |
| L4 EFB 12V85AH  | 85            | 820          | 12                | B13       |  | 01        | 315                        | 12.40 | 175   | 6.89 | 190    | 7.48 | 22            | 48.5 |
| L5 EFB 12V95AH  | 95            | 900          | 12                | B13       |  | 01        | 353                        | 13.90 | 175   | 6.89 | 190    | 7.48 | 24.5          | 54.0 |
| L6 EFB 12V105AH | 105           | 950          | 12                | B13       |  | 01        | 394                        | 15.51 | 175   | 6.89 | 190    | 7.48 | 27            | 59.5 |
| Q85 EFB 12V60AH | 60            | 640          | 12                | B0        |  | 01        | 232                        | 9.13  | 173   | 6.81 | 205    | 8.07 | 16.1          | 35.5 |
| S95 EFB 12V70AH | 70            | 700          | 12                | B0        |  | 01        | 260                        | 10.24 | 173   | 6.81 | 205    | 8.07 | 18.5          | 40.8 |

Notice: The Specifications are subject to change with or without notice



# MARINE BATTERY



## RECOMMENDED FOR:

Ideal for trolling motors, fish finders, GPS systems, radios and more accessories. JYC marine battery has been specifically designed to withstand tests of deep discharge and slow charging of the battery over long periods of time, resulting in reliable long life and long-lasting performance time and time again. The capacity of the batteries can realize to keep your boat on the water longer.

## SPECIFICATIONS

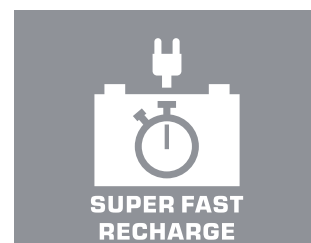
| Model        | Capacity (AH) | CCA (-18 °C) | Rated Voltage (V) | Hold Down | Layout | Terminals | Maximum Overall Dimensions |       |       |      |        |      | Approx. Weight |       |
|--------------|---------------|--------------|-------------------|-----------|--------|-----------|----------------------------|-------|-------|------|--------|------|----------------|-------|
|              |               |              |                   |           |        |           | Length                     |       | Width |      | Height |      | kg             | lbs   |
|              |               |              |                   |           |        |           | mm                         | in    | mm    | in   | mm     | in   |                |       |
| 12V100Q-110  | 110           | 1000         | 12                | B0        |        | 12        | 331                        | 13.03 | 172   | 6.77 | 221    | 8.70 | 32             | 70.5  |
| 6-CQW-180    | 180           | 1000         | 12                | B0        |        | 13        | 518                        | 20.39 | 220   | 8.66 | 217    | 8.54 | 53             | 116.8 |
| 6-CQW-200    | 200           | 1150         | 12                | B0        |        | 13        | 518                        | 20.39 | 220   | 8.66 | 217    | 8.54 | 55.7           | 122.8 |
| 12V150Q-200T | 200           | 1200         | 12                | B0        |        | 12        | 518                        | 20.39 | 223   | 8.78 | 217    | 8.54 | 54.4           | 119.9 |
| 6-CQW-220    | 220           | 1200         | 12                | B0        |        | 13        | 518                        | 20.39 | 241   | 9.49 | 217    | 8.54 | 60.15          | 132.6 |
| 6-CQW-240    | 240           | 1300         | 12                | B0        |        | 13        | 518                        | 20.39 | 241   | 9.49 | 217    | 8.54 | 63             | 138.9 |

Notice: The Specifications are subject to change with or without notice



## FEATURES

- Maintenance-free Design
- Extreme Temperature Tolerance
- Vibration Resistant
- High-performance maintenance-free design
- Maximum leak and external fire protection



## ADVANTAGES

- **LARGE CAPACITY**  
20% More Real Capacity than the Standard Value
- **LONG LIFE**  
3 Times Compared to the Normal Battery
- **FAST CHARGE**  
Increase 20% Charging Speed
- **LOW TEMPERATURE RESISTANT**  
Work Reliably at -40°C - 70°C
- **HIGH COMPATIBILITY**  
Compatible with Different Brand Parking Air Conditioner
- **LOW RESISTANCE**  
15% Less than the National Standard

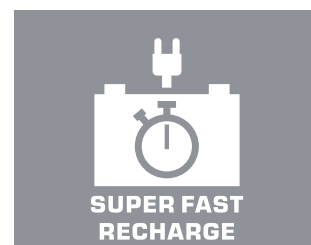


# TRUCK BATTERY



## FEATURES

- Latest Agm Technology
- Reliable And Durable
- High Cycle Stability
- Deep Discharge Proof
- Extremely Vibration-proof
- Completely Enclosed
- Absolutely Maintenance-free
- Ready To Install And Start



## ADVANTAGES

- |  |   |   |
|--|---|---|
| <ul style="list-style-type: none"><li>• <b>LARGE CAPACITY</b><br/>20% More Real Capacity than the Standard Value</li></ul> | <ul style="list-style-type: none"><li>• <b>LONG LIFE</b><br/>3 Times Compared to the Normal Battery</li></ul>                           | <ul style="list-style-type: none"><li>• <b>FAST CHARGE</b><br/>Increase 20% Charging Speed</li></ul>            |
| <ul style="list-style-type: none"><li>• <b>LOW TEMPERATURE RESISTANT</b><br/>Work Reliably at -40°C - 70°C</li></ul>       | <ul style="list-style-type: none"><li>• <b>HIGH COMPATIBILITY</b><br/>Compatible with Different Brand Parking Air Conditioner</li></ul> | <ul style="list-style-type: none"><li>• <b>LOW RESISTANCE</b><br/>15% Less than the National Standard</li></ul> |

## RECOMMENDED FOR:

Rear Chassis Installation  
Designed for the latest generation of long-haul trucks with advanced, high-demand functions.  
Engineered for state-of-the-art city buses and coaches equipped with cutting-edge electrical systems.  
Perfect for modern express delivery trucks with energy-intensive equipment or deep cycling requirements.  
Suitable for applications operating in partial state of charge conditions.  
Built to withstand high-vibration, rugged terrain applications for enhanced durability and reliability.

## SPECIFICATIONS

| Model      | Capacity (AH) | CCA (-18 °C) | Rated Voltage (V) | Hold Down | Layout | Terminals | Maximum Overall Dimensions |       |       |       |        |      | Appox. Weight |       |
|------------|---------------|--------------|-------------------|-----------|--------|-----------|----------------------------|-------|-------|-------|--------|------|---------------|-------|
|            |               |              |                   |           |        |           | Length                     |       | Width |       | Height |      | kg            | lbs   |
|            |               |              |                   |           |        |           | mm                         | in    | mm    | in    | mm     | in   |               |       |
| 6-QDF-180R | 180           | 1200         | 12                | B0        |        | 09        | 512                        | 20.16 | 222   | 8.74  | 216    | 8.50 | 51            | 112.4 |
| 6-QDF-200R | 200           | 1150         | 12                | B0        |        | 09        | 518                        | 20.39 | 276   | 10.87 | 236    | 9.29 | 55.7          | 122.8 |
| 6-QDF-180L | 180           | 1200         | 12                | B0        |        | 09        | 512                        | 20.16 | 222   | 8.74  | 216    | 8.50 | 51            | 112.4 |
| 6-QDF-200L | 200           | 1150         | 12                | B0        |        | 09        | 518                        | 20.39 | 276   | 10.87 | 236    | 9.29 | 55.7          | 122.8 |
| 6-QDF-220R | 220           | 1200         | 12                | B0        |        | 09        | 518                        | 20.39 | 276   | 10.87 | 236    | 9.29 | 60.15         | 132.6 |
| 6-QDF-240R | 240           | 1300         | 12                | B0        |        | 09        | 518                        | 20.39 | 276   | 10.87 | 236    | 9.29 | 63            | 138.9 |
| 6-QDF-220L | 220           | 1200         | 12                | B0        |        | 09        | 518                        | 20.39 | 276   | 10.87 | 236    | 9.29 | 60.15         | 132.6 |
| 6-QDF-240L | 240           | 1300         | 12                | B0        |        | 09        | 518                        | 20.39 | 276   | 10.87 | 236    | 9.29 | 63            | 138.9 |

Notice: The Specifications are subject to change with or without notice



# CONTINUOUS CASTING DIRECT ROLLING (CCDR) AND PUNCHING

Enhance the battery case to prevent electrolyte pollution for seal middle and top case

Middle tab and busbar with better vibration resistance and higher starting performance

AGM Glass micro-fiber separators

New alloy grid formula with higher strength, better conductivity, longer life

Negative grid

Positive grid

High density lead paste for better performance

Lower internal resistance, better consistency, and short current path is more suitable for high current of charging and discharging

The reinforced design of the cell wall combines lightweight and strength

Downward fixed sloping surface for easy installation



## CCDR INTRODUCTION:

CCDR Punching grid adopts a spider-shaped design, fully considers the current collection and dispersion process, and realizes the curve-type connection between each grid body. This grid has high intermolecular density, low internal resistance, corrosion resistance, and toughness, is not easy to break, is more consistent, and is more suitable for large current charge and discharge and deep cycle use, thus extending the life of the battery.

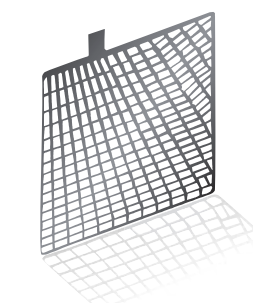
## CCDR PUNCHING BATTERY:



1

### Corrosion Resistance

Adopt casting punching technology, a compact structure



2

### High Toughness

Full frame design, grid is more solid



(CCDR) PUNCHING GRID

3

### Low Internal Resistance

Spider-shape design



4

### Long Lifespan

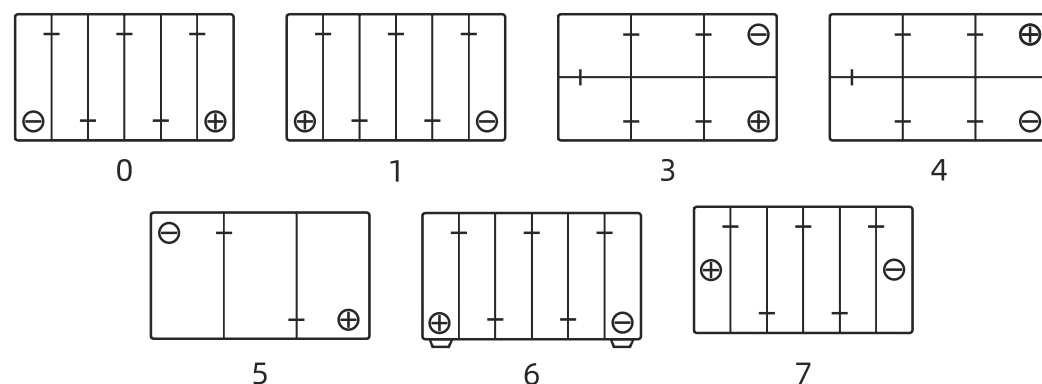
Stereoscopic grid structure for stronger lead paste fixation



# TERMINAL AND HOLD DOWN FOR THE AUTOMOTIVE BATTERY

## CELL ASSEMBLY LAYOUT

12 Volt



### Hold Down

B0



B13

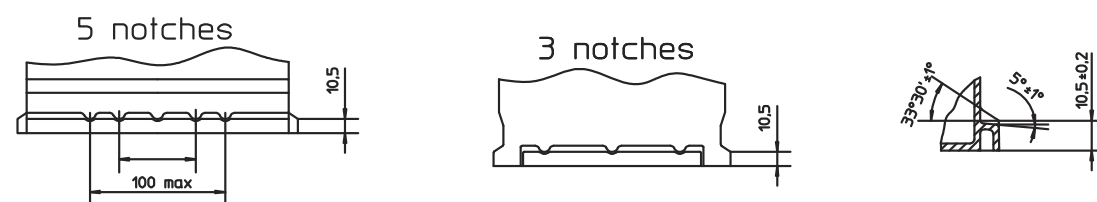
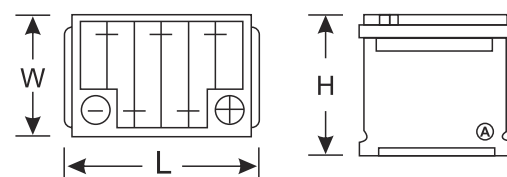
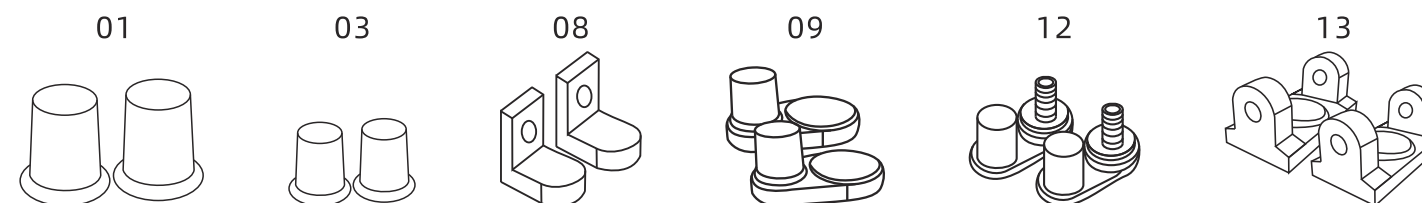


FIG. 24



47 94R  
48 95R  
49 99R  
90 102R  
91 140R  
92 153R  
93

## TYPE OF TERMINALS



## Application



## HOW TO REPLACE BATTERY

