

MAGNACHARGE

BATTERY

1964



POWER FOR EVERY PURPOSE

Introduction:

- Magnacharge Battery Corporation is a privately held battery wholesale and distribution company with operations across Canada, The United States (Mid-West) and Central America.
- We have been a leader in battery distribution since 1964; continuously building on an already expansive infrastructure, providing access to the industries best power solutions.
- Our distributed workforce and branch network expand our reach to consumers across the Americas, serving all markets with the same passion, loyalty, and premium products that we have been supplying to Canadians for over five decades.
- We are driven to be the best partner, to grow your business, to continue developing partnerships with the best manufacturers, best distributors, and the industries most knowledgeable staff.
- We are guided by our passion of bringing the most value to everyone we serve, offering local service on a national scale with global coverage and an international network.

Background:

- We offer the industries most advanced technology with the most comprehensive line of products, a distribution network par excellence, all delivered with a passion for building relationships that provide the most value to our consumers, distributors, workforce, and our manufacturing partners.
- Our humble beginning as a local battery manufacturer has fueled our commitment for developing the best products and service. We preserve our founding principles of offering complete stored energy solutions and the best batteries to market. Incessantly enhancing the customer experience has been and will continue to be our foundation.

Mission:

- Our mission is to deliver industry leading service, advanced stored energy solutions, a complete distribution channel and to integrate green initiatives into our operation. We will continue to nurture a safe, healthy, and productive work environment while providing flexible and comprehensive business solutions with a customer-centric approach.

Business Model:

- Our distribution model offers a fleet of over sixty vehicles delivering batteries and related products across all markets every day. We remain committed to excellence as we deliver new products while offering inventory maintenance, stock rotation programs and scrap battery collection.
- Our key objective is ensuring peak performance, industry leading fill rates and access to products for the most unique requests, allowing you to focus on supporting your customers and growing your business.
- Our twenty-three and growing corporate branch locations offer consistency, immediate access to products and flexibility to meet your needs. We encourage creative thinking, innovative leadership, a fluid supply chain, inventory control solutions and the ease of doing business.
- Our structure urges regular on-site or virtual training to keep your staff and customers up to date with product advancement and the best solutions for their power needs.

Sustainability:

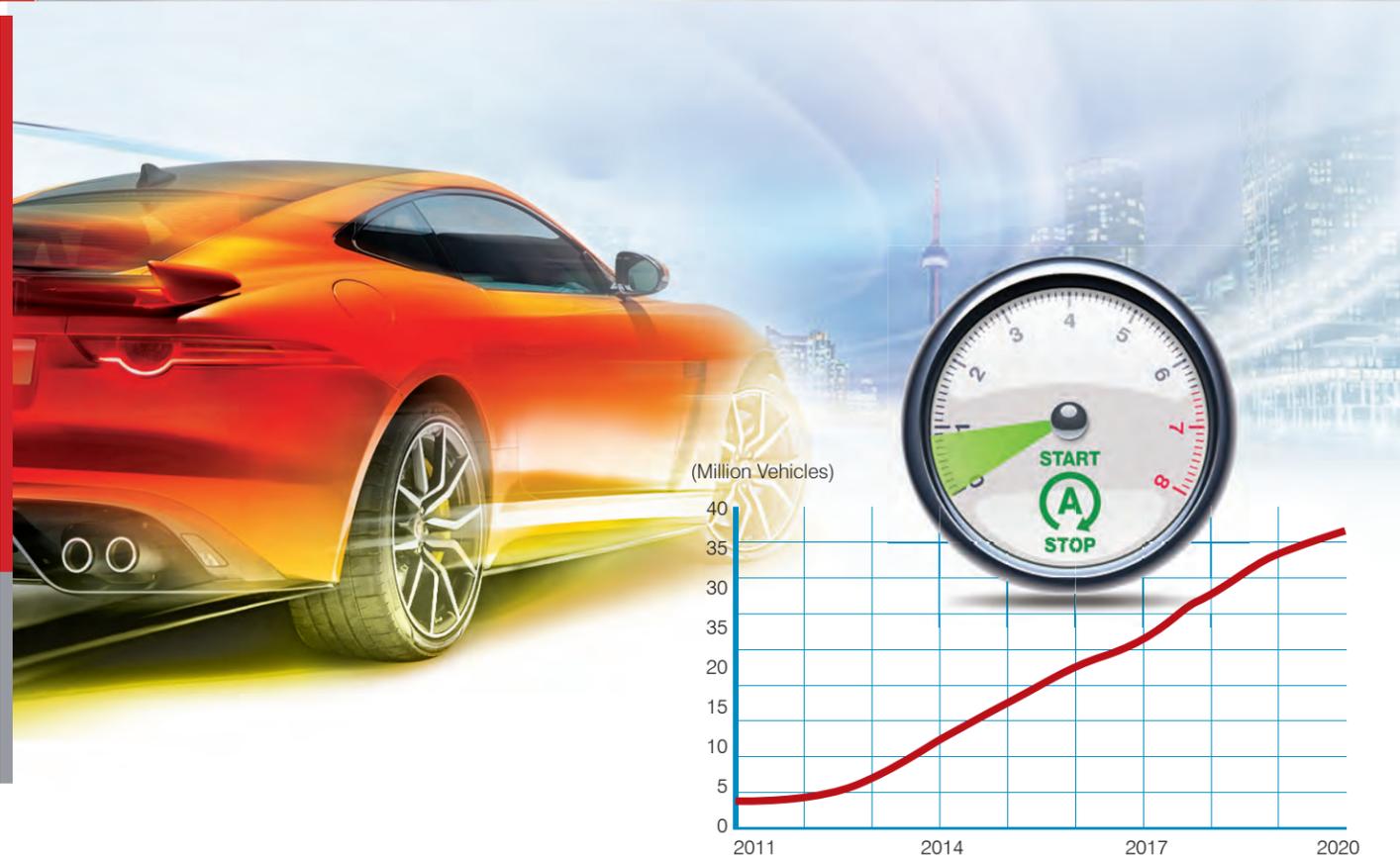
- We are devoted to a complete battery recovery program focused on green sustainability in our business and in all communities. Our battery exchange and scrap battery collection program will continue to fuel our corporate and industry commitment of a complete closed loop process which has elevated lead-acid batteries to be the number one recycled consumer good.

Summary:

- We are steadfast in providing the highest quality batteries, chargers, accessories, and components required to keep your equipment moving and maintained for years of extended reliable use.
- Our evolving product portfolio and local distribution points allow for instant access to battery products required to serve essential markets in the Automotive, Commercial, Industrial, Oil, Gas, Natural Resource, Military, Government, Medical, Leisure and Recreational sectors.
- Not only do we offer a complete product portfolio for original equipment manufacturers and aftermarket sales segments in any public or private sector we also remain devoted to after sale support as part of our pledge to strengthening partnerships. Our interests remain on assisting you to economically achieve your business goals while providing the highest quality products that you and your customers can confidently depend on.
- We are excited to provide you with this introduction to Magnacharge Battery. It is a privilege to be your preferred supply chain partner, resource centre for all your battery needs, local partner, and a great place of employment.

For other brands and products please check online at
www.magnacharge.com

MARKETS



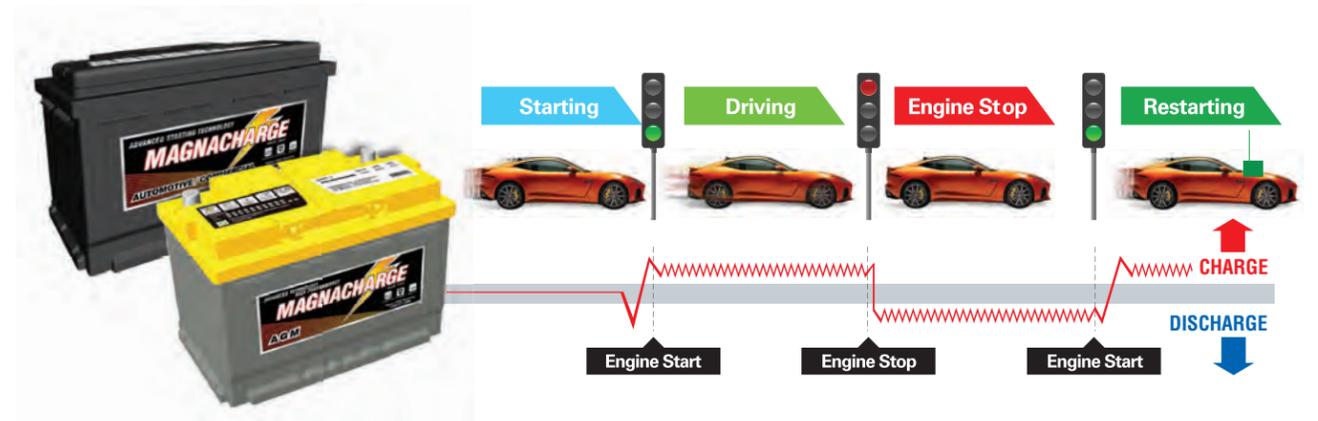
TRANSPORTATION AUTOMOTIVE | COMMERCIAL

Automotive and Commercial vehicles can be powered with our complete line of Magnacharge batteries; available in premium advanced starting technology and an ever-increasing assortment of AGM technology to meet the demand placed on today's vehicle.

AGM separators, X-frame technology, reinforced casing, stronger charge acceptance, premium starting power, carbon additives & O.E fitment allow our products to meet the demands of urban intensive use, vehicles with heavily equipped electronic devices and the increased production of vehicles with ISS (Idle-Start-Stop) technology.

ISS (Idle-Start-Stop) technology communicates with the engine to shutdown when the vehicle is "idle" and restarts the engine when the vehicle begins acceleration. This technology helps reduce Co2 emission, offers increased fuel economy and improves the driving experience, it also requires optimized batteries that can accommodate the cycling requirements while the vehicle sits idle and the constant "start-stop" strain on the battery.

Our advanced starting technology and assortment of AGM options are engineered to provide the best power solutions to meet the increased demand and production of vehicles equipped with ISS technology and offers even greater performance for traditional ICE (Internal combustion engines).



Commercial vehicles demand nothing less than the most powerful, reliable and durable batteries. Advanced technology and premium materials have been engineered into the Magnacharge commercial series ensuring the best starting power, higher reserve capacity and cycling power to provide the most reliable experience in the commercial segment. We offer the perfect power solution as a result of innovative technology. Some key features are advanced calcium lead alloy (reducing water consumption), thicker plate design with durability to combat the damaging effects of vibration and offering more cyclic stability than other brands in the category. Polyethylene separators with fleece specifically designed for the harshest applications, labyrinth double lid with flame arrestor providing maintenance free service and additional safety. Power all diesel equipment and vehicles with a comprehensive line of solutions.

We guarantee to solve the problem and start your vehicle in the harshest conditions, using wet / flooded, AGM and other high-performance technologies to help you get to where you need to be, on time and worry free.

MAGNACHARGE ADVANCED STARTING TECHNOLOGY BATTERIES

- Delivering outstanding product quality through innovative technology:



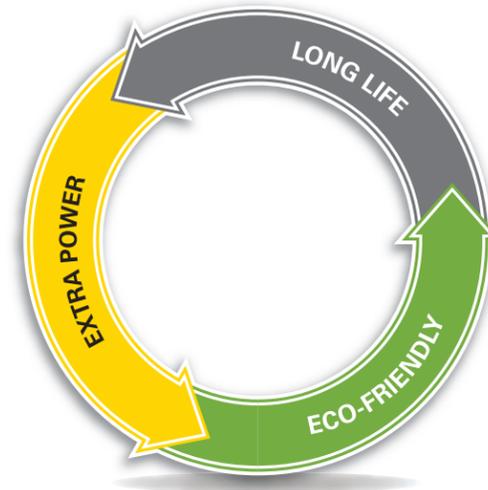
BATTERY STRUCTURE

- 1 X-Frame and High Durability Technology
- 2 Enveloped glass mat separator for low electric resistance
- 3 Advanced center lug technology and cast on strap
- 4 Sealed double lid with flame arrestor
- 5 Integrated computer design and reinforced container
- 6 Magic eye indicator

Long Life • Enhanced Power • Reliable Performance
• Improved Safety and Usability •

X-FRAME TECHNOLOGY: MAXIMIZED POWER & ENHANCED STABILITY

- Magnacharge Advanced Starting Technology produces patterned and fully framed grids through a manufacturing process called “stamping”.



LONG LIFE

Rolling & Stamping Process

- Excellent corrosion resistance
- Outstanding mechanical performance

Full Framed Grid Design

- Prevents grid growth & short circuits

EXTRA POWER

Radial Grid Design

- Ensures low electrical resistance

Advance Centre Lug

- Better power flow

ADDITIONAL FEATURES:

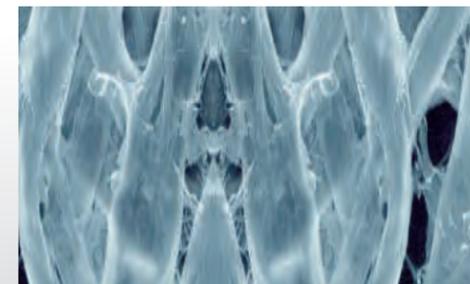
- Eco-friendly production process
- Sealed maintenance free
- Stronger charge acceptance
- Lower discharge rates
- Less water consumption
- Vibration resistant

■ HIGH DURABILITY TECHNOLOGY: Extended Battery Life

Magnacharge Advanced Starting Technology provides extended life through high durability technology. Using cutting-edge materials, high durability technology protects the grid until the end of battery life and improves battery performance. Meet OE quality performance and specifications.

■ Ultra Micro-Fiber & Special Tissue

- Increases plate durability by reducing the aging-rate of active materials



Conventional
Common Pulp Tissue



Magnacharge Advanced Starting Technology
Special Tissue

* These images of electron microscope show the surface of a tissue after a life cycle test.

AGM TECHNOLOGY

AGM(Absorbent Glass Mat) Separator

- **Minimized electric resistance, half of flooded battery**
 - Provides outstanding cranking power, due to enhanced ionic transfer
- **No Plate movement and completely spill and leak-proof**
 - Installation may be at any angle position

X-FRAME

- **Full Frame with Stamped Grid Technology**
 - Longer life, advanced starting power, and Premium durability

UMF (Ultra Micro Fiber)

- **Addition of fine fiber to active material**
 - Increases performance rate of active material

HDA (High Density Active-material)

- **High pressure glass mat**
 - Prevents shedding of active material and as a result, ensures longer life



VRLA Sealed Construction advanced gas recombination Tech.

Valve Regulated Vent plug

- Stable cranking power
- Provides constant energy flow in each cell
- 100% leak-proof and safe handling



High Dimension of Grid Structure

- Provides more reaction surface area and increase of energy density

Valve Regulated Vent plug

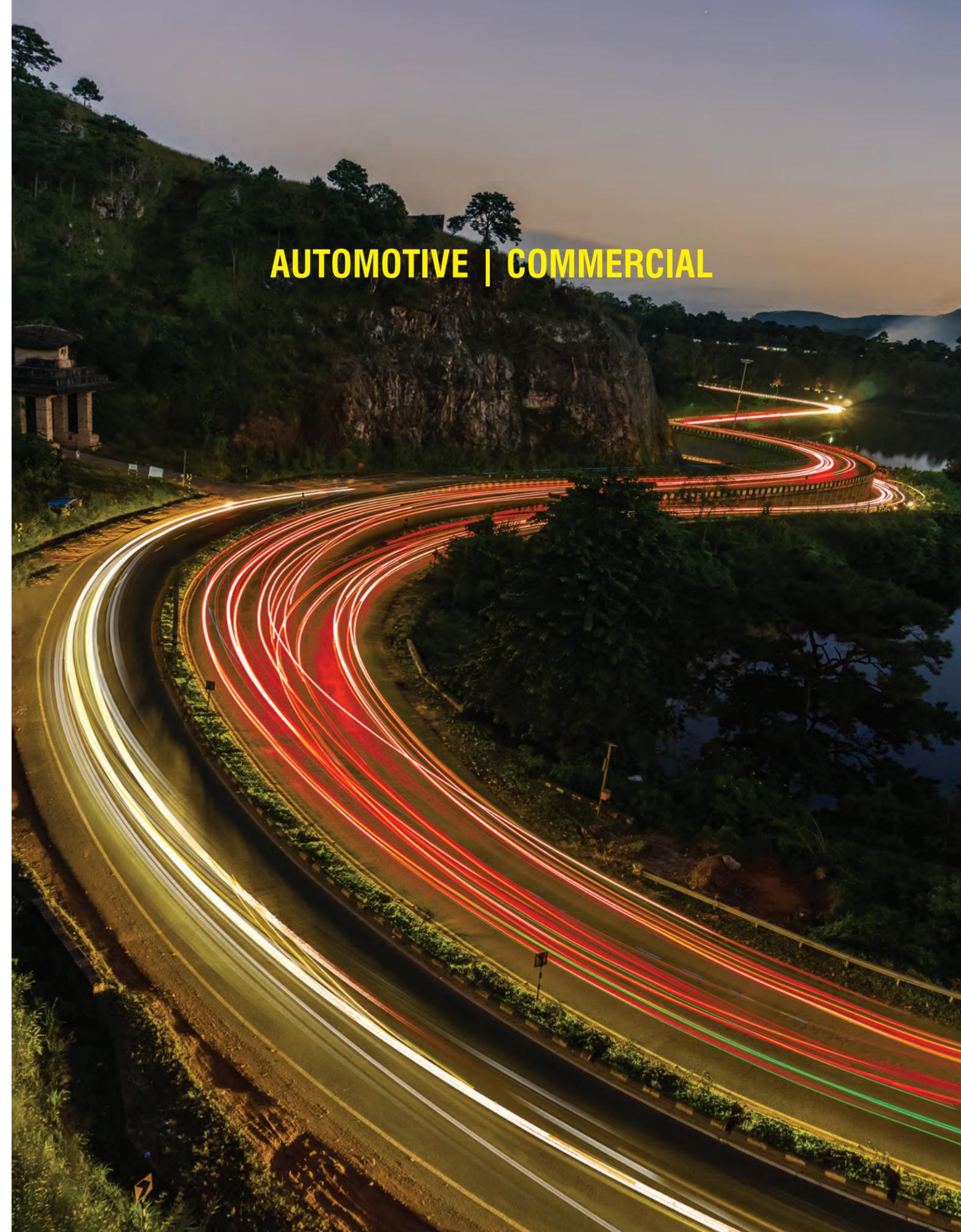
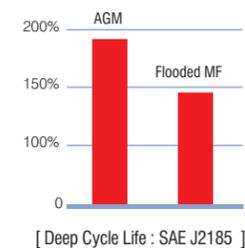
- Increase of energy density

Reinforced Case Design

- Protects battery from vibration
- Provides consistent element compression

Benefits

| High Performance | Long Life |
|---|--|
| <ul style="list-style-type: none"> - Excellent high rate discharge - Powerful cycle performance by high density active material | <ul style="list-style-type: none"> - Full Frame Stamped Grid with Ca-Sn alloy - Electrolyte density is stable - 2 times greater cycling ability over flooded - Moderate discharge levels |





AUTOMOTIVE BATTERY



Magnacharge Battery designed to provide ultimate performance for a wide range of premium vehicles that require higher power support.

Key Benefits:

- Absorbent Glass Mat separator
- X-Frame Technology
- Advanced Starting Power
- Vibration Resistant
- Stronger Charge Acceptance
- Longer Service Life
- For Domestic, European, Japanese Vehicle

SPECIFICATIONS:

| Part # | PERFORMANCE INFORMATION | | | | Approx Dimension (mm) | | | WARRANTY MONTHS | | Assembly Figure No. | TERMINAL CONFIG. | BATTERY HOLD DOWN |
|--|-------------------------|-----------|-----------|--------|-----------------------|--------|--------------|-----------------|----|---------------------|------------------|-------------------|
| | CCA @ -17.8 °C | CA @ 0 °C | R/C @ 25A | Length | Width | Height | FREE REGULAR | FREE COMMERCIAL | | | | |
| 12 VOLT AUTOMOTIVE STARTING - TOP TERMINAL | | | | | | | | | | | | |
| 22F-525 | MS22F-525 | 500 | 625 | 90 | 9.44 | 5.50 | 8.94 | 18 | 6 | FIG.11F | A | B1 |
| 24C-525 | MS24C-525 | 450 | 550 | 80 | 10.25 | 6.81 | 9.00 | 18 | 6 | FIG.10 | A | B1 |
| 24C-750 | MS24C-750 | 600 | 750 | 115 | 10.25 | 6.81 | 9.00 | 30 | 12 | FIG.10 | A | B1 |
| 24C-925 | MS24C-925 | 750 | 925 | 155 | 10.25 | 6.81 | 9.00 | 40 | 18 | FIG.10 | A | B1 |
| 24F-525 | MS24F-525 | 450 | 550 | 80 | 10.25 | 6.81 | 9.00 | 18 | 6 | FIG.11 | A | B1 |
| 24F-750 | MS24F-750 | 600 | 750 | 115 | 10.25 | 6.81 | 9.00 | 30 | 12 | FIG.11 | A | B1 |
| 24F-925 | MS24F-925 | 750 | 925 | 155 | 10.25 | 6.81 | 9.00 | 40 | 18 | FIG.11 | A | B1 |
| 25-625 | MS25-625 | 550 | 675 | 100 | 9.06 | 6.94 | 8.88 | 30 | 12 | FIG.10 | A | B1 |
| 26-700 | MS26-700 | 550 | 675 | 100 | 8.19 | 6.81 | 7.75 | 30 | 12 | FIG.10 | A | B1 |
| 26R-700 | MS26R-700 | 550 | 675 | 100 | 8.19 | 6.81 | 7.75 | 30 | 12 | FIG.11 | A | B1 |
| 27C-900 | MS27C-900 | 750 | 925 | 155 | 12.06 | 6.81 | 8.88 | 40 | 18 | FIG.10 | A | B1 |
| 27F-900 | MS27F-900 | 750 | 925 | 155 | 12.06 | 6.81 | 8.88 | 40 | 18 | FIG.11F | A | B5 |
| 34-750 | MS34-750 | 550 | 675 | 100 | 10.25 | 6.81 | 7.88 | 30 | 12 | FIG.10 | A | B1 |
| 34-850 | MS34-850 | 670 | 825 | 130 | 10.25 | 6.81 | 7.88 | 40 | 18 | FIG.10 | A | B1 |
| 35-625 | MS35-625 | 550 | 675 | 100 | 9.06 | 6.94 | 8.88 | 30 | 12 | FIG.11 | A | B1 |
| 36R-800 | MS36R-800 | 650 | 815 | 130 | 10.38 | 7.19 | 8.13 | 30 | 12 | FIG.19 | A | N/A |
| 40R-750 | MS40R-750 | 620 | 775 | 105 | 11.00 | 6.94 | 6.94 | 30 | 12 | FIG.15 | A | B4 |
| 41-800 | MS41-800 | 650 | 800 | 115 | 11.56 | 6.94 | 6.94 | 40 | 18 | FIG.15 | A | B13 |
| 42-550 | MS42-550 | 510 | 625 | 90 | 9.56 | 6.94 | 6.94 | 30 | 12 | FIG.15 | A | B4 |
| 47-750 | MS47-750 | 600 | 750 | 110 | 9.56 | 6.94 | 7.50 | 30 | 12 | FIG.24 | A | B13 |
| 48-850 | MS48-850 | 760 | 950 | 150 | 11.00 | 6.93 | 7.50 | 30 | 12 | FIG.24 | A | B13 |
| 49-1050 | MS49-1050 | 850 | 1050 | 180 | 13.94 | 6.94 | 7.50 | 30 | 12 | FIG.24 | A | B13 |
| 51-530 | MS51-530 | 430 | 525 | 80 | 9.38 | 5.06 | 8.75 | 40 | 18 | FIG.10 | A | B1 |
| 51R-530 | MS51R-530 | 430 | 525 | 80 | 9.38 | 5.06 | 8.75 | 40 | 18 | FIG.11 | A | B1 |
| 58-675 | MS58-675 | 560 | 700 | 100 | 10.06 | 7.19 | 6.94 | 40 | 18 | FIG.26 | A | B8 |
| 58R-675 | MS58R-675 | 560 | 700 | 100 | 10.06 | 7.19 | 6.94 | 40 | 18 | FIG.19 | A | B8 |
| 59-735 | MS59-735 | 560 | 700 | 100 | 10.06 | 7.69 | 7.75 | 30 | 12 | FIG.21 | A | B8 |
| 65-875 | MS65-875 | 650 | 800 | 130 | 12.06 | 7.56 | 7.56 | 30 | 12 | FIG.21 | A | B8 |
| 65-1100 | MS65-1100 | 850 | 1100 | 150 | 12.06 | 7.56 | 7.56 | 40 | 18 | FIG.21 | A | B8 |
| 85-650 | MS85-650 | 550 | 675 | 90 | 9.06 | 6.81 | 8.00 | 30 | 12 | FIG.11 | A | B1 |
| 86-650 | MS86-650 | 550 | 675 | 90 | 9.06 | 6.81 | 8.00 | 30 | 12 | FIG.10 | A | B1 |
| 90-625 | MS90-625 | 500 | 625 | 90 | 9.56 | 6.94 | 6.94 | 30 | 12 | FIG.24 | A | B13 |
| 91-820 | MS91-820 | 630 | 775 | 110 | 11.00 | 6.94 | 6.94 | 30 | 12 | FIG.24 | A | B13 |
| 92-800 | MS92-800 | 650 | 800 | 125 | 12.44 | 6.94 | 6.94 | 30 | 12 | FIG.24 | A | B13 |
| 93-995 | MS93-995 | 800 | 995 | 150 | 13.94 | 6.94 | 6.94 | 30 | 12 | FIG.24 | A | B13 |
| 94R-1025 | MS94R-1025 | 700 | 875 | 140 | 12.44 | 6.94 | 7.50 | 30 | 12 | FIG.24 | A | B13 |
| 95R-1050 | MS95R-1050 | 850 | 1050 | 200 | 15.56 | 6.94 | 7.50 | 30 | 12 | FIG.24 | A | B13 |
| 96R-675 | MS96R-675 | 590 | 725 | 90 | 9.50 | 6.94 | 6.94 | 30 | 12 | FIG.15 | A | B1 |
| 99R-560 | MS99R-560 | 450 | 560 | 75 | 8.13 | 6.94 | 6.94 | 30 | 12 | FIG.24 | A | B13 |



| Part # | PERFORMANCE INFORMATION | | | | Approx Dimension (mm) | | | WARRANTY MONTHS | | Assembly Figure No. | TERMINAL CONFIG. | BATTERY HOLD DOWN |
|---|-------------------------|-----------|-----------|--------|-----------------------|--------|--------------|-----------------|----|---------------------|------------------|-------------------|
| | CCA @ -17.8 °C | CA @ 0 °C | R/C @ 25A | Length | Width | Height | FREE REGULAR | FREE COMMERCIAL | | | | |
| 12 VOLT AUTOMOTIVE STARTING - TOP TERMINAL | | | | | | | | | | | | |
| 121R-625 | MS121R-625 | 500 | 625 | 90 | 8.25 | 7.00 | 8.50 | 30 | 12 | FIG.11H | A | B1 |
| 124R-850 | MS124R-850 | 680 | 850 | 140 | 10.38 | 7.00 | 8.63 | 30 | 12 | FIG.11H | A | B1 |
| 140R-650 | MS140R-650 | 590 | 650 | 110 | 8.13 | 6.94 | 7.50 | 30 | 12 | FIG.24 | A | B13 |
| 151R-450 | MS151R-450 | 370 | 450 | 60 | 7.44 | 4.94 | 8.88 | 30 | 12 | FIG.28 | A | N/A |
| 12 VOLT AUTOMOTIVE STARTING - TOP TERMINAL | | | | | | | | | | | | |
| MIATA | MSMIATA | 430 | 525 | 80 | 9.22 | 5.33 | 9.22 | 18 | 6 | N/A | A3 | B1 |
| NS40 | MSNS40 | 330 | 400 | 56 | 7.40 | 4.93 | 8.97 | 18 | 6 | N/A | A | N/A |
| NS40Z | MSNS40Z | 330 | 410 | 56 | 7.36 | 5.00 | 8.67 | 18 | 6 | N/A | A | N/A |
| NS40L | MSNS40L | 330 | 400 | 56 | 7.44 | 4.94 | 8.88 | 18 | 6 | N/A | A3 | N/A |
| NS40Z | MSNS40Z | 330 | 400 | 56 | 7.36 | 5.00 | 8.67 | 18 | 6 | N/A | A3 | N/A |
| NS60 | MSNS60 | 400 | 500 | 65 | 9.26 | 4.95 | 7.87 | 18 | 6 | N/A | A | N/A |
| 12 VOLT AUTOMOTIVE STARTING - SIDE TERMINAL | | | | | | | | | | | | |
| 70-625 | MS70-625 | 500 | 625 | 90 | 8.19 | 7.06 | 7.31 | 18 | 6 | FIG.17 | S | B1 |
| 75-800 | MS75-800 | 600 | 750 | 115 | 9.06 | 7.06 | 7.31 | 30 | 12 | FIG.17 | S | B1 |
| 75-850 | MS75-850 | 700 | 875 | 130 | 9.06 | 7.06 | 7.31 | 40 | 18 | FIG.17 | S | B1 |
| 78-800 | MS78-800 | 600 | 750 | 110 | 10.25 | 7.06 | 7.31 | 30 | 12 | FIG.17 | S | B1 |
| 78-950 | MS78-950 | 750 | 925 | 155 | 10.25 | 7.06 | 7.31 | 40 | 18 | FIG.17 | S | B1 |
| 101-650 | MS101-650 | 650 | 800 | 98 | 10.25 | 7.06 | 6.69 | 30 | 12 | FIG.17 | S | N/A |
| 12 VOLT UNIVERSAL DUAL TERMINAL | | | | | | | | | | | | |
| 70DT-550 | MS70DT-550 | 400 | 500 | 70 | 8.19 | 7.06 | 7.75 | 18 | 6 | N/A | A+S | B1 |
| 70DT-675 | MS70DT-675 | 500 | 625 | 90 | 8.19 | 7.06 | 7.75 | 30 | 12 | N/A | A+S | B1 |
| 75DT-850 | MS75DT-850 | 650 | 800 | 130 | 9.06 | 7.06 | 8.00 | 30 | 12 | N/A | A+S | B1 |
| 78DT-625 | MS78DT-625 | 550 | 675 | 100 | 10.25 | 7.06 | 7.88 | 18 | 6 | N/A | A+S | B1 |
| 78DT-925 | MS78DT-925 | 710 | 875 | 140 | 10.25 | 7.06 | 7.88 | 30 | 12 | N/A | A+S | B1 |
| 78DT-1000 | MS78DT-1000 | 800 | 1000 | 155 | 10.25 | 7.06 | 7.88 | 40 | 18 | N/A | A+S | B1 |
| 12 VOLT AUTOMOTIVE STARTING - AGM | | | | | | | | | | | | |
| 24C-925AGM | MS24C-925AGM | 750 | 925 | 140 | 10.25 | 6.81 | 9.00 | 42 | 18 | FIG.10 | A | B1 |
| 24F-925AGM | MS24F-925AGM | 750 | 925 | 140 | 10.25 | 6.81 | 9.00 | 42 | 18 | FIG.11F | A | B1 |
| 31-1000AGM | MS31-1000AGM | 800 | 1000 | 180 | 13.00 | 6.81 | 9.44 | 20 | 18 | FIG.18 | T | N/A |
| 31A-1000AGM | MS31A-1000AGM | 800 | 1000 | 180 | 13.00 | 6.81 | 9.44 | 20 | 18 | FIG.18 | A | N/A |
| 31-1125AGM | MS31-1125AGM | 950 | 1200 | 200 | 13.07 | 6.77 | 9.09 | 20 | 18 | FIG.18 | T | N/A |
| 34-850AGM | MS34-850AGM | 750 | 925 | 120 | 10.20 | 6.81 | 7.91 | 42 | 18 | FIG.10 | A | B1 |
| 35-625AGM | MS35-625AGM | 550 | 675 | 85 | 9.06 | 6.94 | 8.88 | 32 | 12 | FIG.11 | A | B1 |
| 47-750AGM | MS47-750AGM | 600 | 750 | 110 | 9.56 | 6.94 | 7.50 | 32 | 12 | FIG.24 | A | B13 |
| 48-950AGM | MS48-950AGM | 760 | 950 | 150 | 11.00 | 6.94 | 7.50 | 32 | 12 | FIG.24 | A | B13 |
| 49-1050AGM | MS49-1050AGM | 850 | 1050 | 180 | 13.94 | 6.98 | 7.50 | 32 | 12 | FIG.24 | A | B13 |
| 51R-530AGM | MS51R-530AGM | 325 | 400 | 70 | 9.38 | 5.06 | 8.75 | 32 | 12 | FIG.11 | A | N/A |
| 65-1000AGM | MS65-1000AGM | 775 | 965 | 150 | 12.06 | 7.56 | 7.56 | 42 | 18 | FIG.21 | A | N/A |
| 94R-1000AGM | MS94R-1000AGM | 800 | 1000 | 160 | 12.44 | 6.94 | 7.50 | 32 | 12 | FIG.24 | A | B13 |
| 95R-1050AGM | MS95R-1050AGM | 950 | 1050 | 205 | 15.47 | 6.85 | 7.48 | 32 | 12 | FIG.24 | A | B13 |
| 140R-650AGM | MS140R-650AGM | 570 | 725 | 80 | 8.19 | 6.85 | 7.48 | 32 | 12 | FIG.24 | A | B13 |
| PRIUS | MSPRIUS | 325 | 400 | 70 | 7.76 | 5.08 | 8.94 | 12 | 6 | N/A | A3 | N/A |

MATERIAL HANDLING | OIL & GAS | FORESTRY | MINING | TRANSPORT TRUCK



The economy relies on our natural resources, the products it produces, its global requirements and the jobs it creates. Power essential material handling equipment and the fleet required to deliver these essential resources that our industries rely on with Magnacharge premium AGM, Magnacharge advanced starting technology and our Premium Magnacharge 6V / 8V and 12V Deep cycle solutions.

Cycling power guaranteed to get the job done whether it be powering a forklift, a crane, an aerial work platform, a solar powered pump, or surveillance equipment. We have power for every purpose to support the most demanding applications.



COMMERCIAL BATTERY



Magnacharge Battery designed to provide ultimate performance for a wide range of premium vehicles that require higher power support.

Key Benefits:

- Absorbent Glass Mat separator
- X-Frame Technology
- Advanced Starting Power
- Vibration Resistant
- Stronger Charge Acceptance
- Longer Life Service
- Meets OE quality, performance & Specification

SPECIFICATIONS:

| PART # | PERFORMANCE INFORMATION | | | Approx Dimension (mm) | | | WARRANTY MONTHS | | Assembly Figure No. | TERMINAL CONFIG. | BATTERY HOLD DOWN | |
|--|-------------------------|-----------|-----------|-----------------------|-------|--------|-----------------|-----------------|---------------------|------------------|-------------------|-----|
| | CCA @ -17.8 °C | CA @ 0 °C | R/C @ 25A | Length | Width | Height | FREE REGULAR | FREE COMMERCIAL | | | | |
| 6 VOLT COMMERCIAL TRUCK, FARM AND EQUIPMENT | | | | | | | | | | | | |
| 1-725 | MS1-725 | 540 | 675 | 135 | 9.13 | 7.13 | 9.38 | 12 | 6 | FIG.2 | A | N/A |
| 2-825 | MS2-825 | 650 | 800 | 175 | 10.38 | 7.13 | 9.38 | 12 | 6 | FIG.2 | A | N/A |
| 3EH-1025 | MS3EH-1025 | 800 | 1000 | 240 | 19.31 | 4.38 | 9.19 | 12 | 6 | FIG.5 | A | N/A |
| 4-1350 | MS4-1350 | 1000 | 1250 | 290 | 13.13 | 7.13 | 9.38 | 12 | 6 | FIG.2 | A | N/A |
| 12 VOLT FARM TRACTOR AND EQUIPMENT | | | | | | | | | | | | |
| 3EE-525 | MS3EE-625 | 440 | 550 | 100 | 19.31 | 4.38 | 8.88 | 12 | 6 | FIG.9 | A | N/A |
| 4DLT-1125 | MS4DLT-1125 | 900 | 1125 | 200 | 20.00 | 8.19 | 7.94 | 12 | 12 | FIG.16L | A | N/A |
| 12 VOLT COMMERCIAL TRUCK, BUS AND EQUIPMENT | | | | | | | | | | | | |
| 30H-850 | MS30H-850 | 830 | 1025 | 182 | 13.50 | 6.81 | 9.25 | 18 | 18 | FIG.10 | A | B1 |
| 31-875DC | MS31-875DC | 700 | 875 | 180 | 13.00 | 6.81 | 9.44 | 12 | 12 | FIG.18 | T | N/A |
| 31-875S | MS31-875S | 700 | 875 | 150 | 13.00 | 6.81 | 9.44 | 12 | 12 | FIG.18 | T | N/A |
| 31-1125S | MS31-1125S | 925 | 1125 | 190 | 13.00 | 6.81 | 9.44 | 18 | 18 | FIG.18 | T | N/A |
| 31-1125A | MS31-1125A | 925 | 1125 | 190 | 13.00 | 6.81 | 9.44 | 18 | 18 | FIG.18 | A | N/A |
| 31-1250S | MS31-1250S | 1000 | 1250 | 200 | 13.00 | 6.81 | 9.44 | 24 | 24 | FIG.18 | T | N/A |
| 31-1250A | MS31-1250A | 1000 | 1250 | 200 | 13.00 | 6.81 | 9.44 | 24 | 24 | FIG.18 | A | N/A |
| 4D-1250M | MS4D-1250M | 1000 | 1250 | 300 | 20.75 | 8.75 | 9.81 | 18 | 18 | FIG.8 | A | B0 |
| 4D-1250 | MS4D-1250 | 1000 | 1250 | 300 | 20.75 | 8.75 | 9.81 | 18 | 18 | FIG.8 | A | N/A |
| 8D-1250 | MS8D-1250 | 1100 | 1320 | 370 | 20.75 | 11.13 | 9.81 | 12 | 12 | FIG.8 | A | N/A |
| 8D-1600M | MS8D-1600M | 1350 | 1650 | 530 | 20.75 | 11.13 | 9.81 | 24 | 24 | FIG.8 | A | B0 |
| 8D-1600 | MS8D-1600 | 1300 | 1625 | 450 | 20.75 | 11.13 | 9.81 | 18 | 18 | FIG.8 | A | N/A |
| 8D-1750 | MS8D-1750 | 1400 | 1750 | 500 | 20.75 | 11.13 | 9.81 | 18 | 18 | FIG.8 | A | N/A |
| N-100 | MSN-100 | 700 | 875 | 180 | 16.13 | 6.75 | 9.00 | 12 | 12 | N/A | A | N/A |
| N-120 | MSN-120 | 800 | 1000 | 180 | 19.92 | 7.17 | 9.38 | 12 | 12 | N/A | A | N/A |
| 64020 | MS64020 | 900 | 950 | 250 | 20.12 | 7.41 | 7.68 | 12 | 12 | N/A | A | B0 |

COMMERCIAL BATTERY

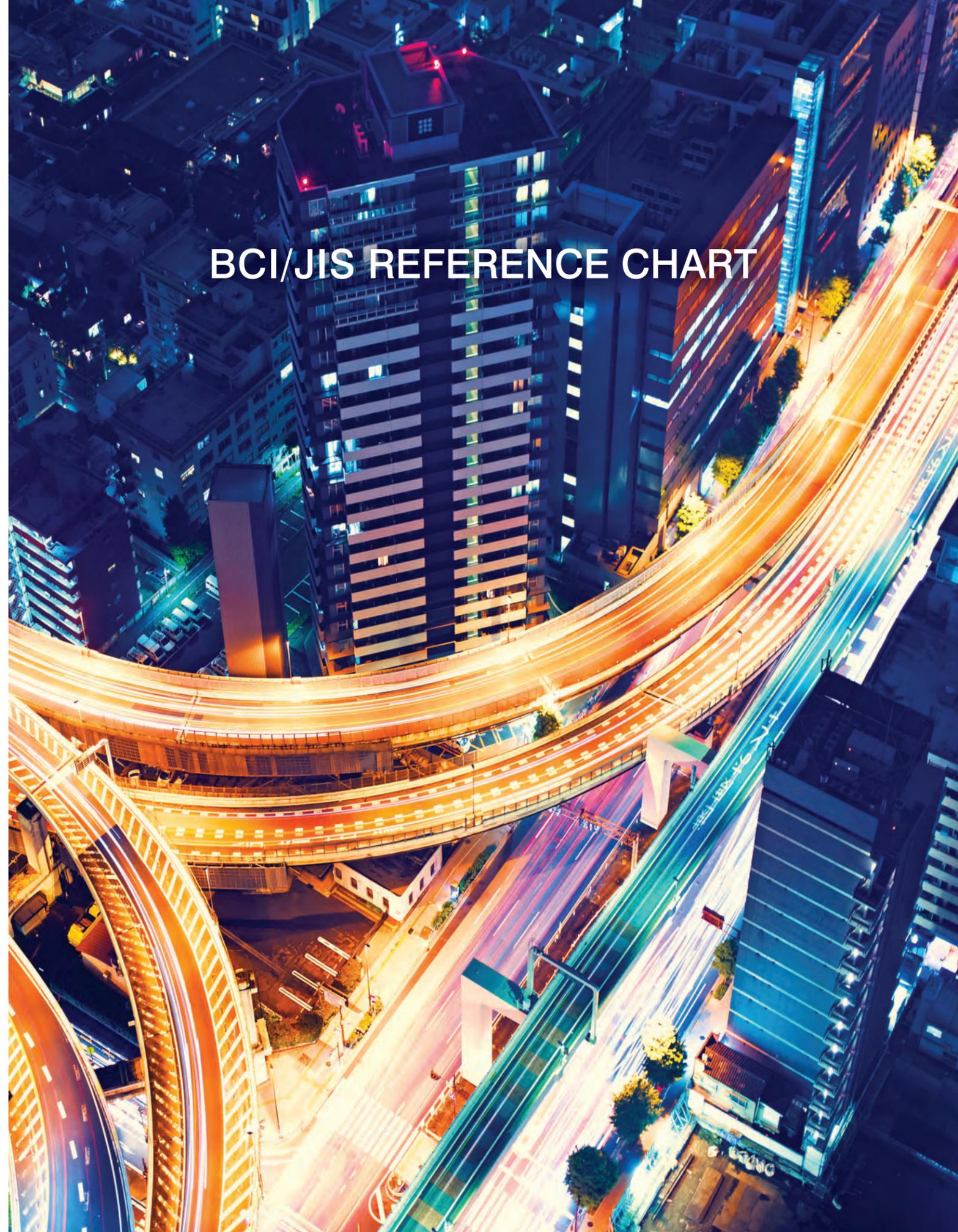


| PART # | PERFORMANCE INFORMATION | | | Approx Dimension (mm) | | | WARRANTY MONTHS | | Assembly Figure No. | TERMINAL CONFG. | BATTERY HOLD DOWN | |
|--|-------------------------|----------|-----------|-----------------------|-------|--------|-----------------|-----------------|---------------------|-----------------|-------------------|-----|
| | CCA @ -17.8°C | CA @ 0°C | R/C @ 25A | Length | Width | Height | FREE REGULAR | FREE COMMERCIAL | | | | |
| 12 VOLT COMMERCIAL STARTING-AGM | | | | | | | | | | | | |
| 31-1000AGM | MS31-1000AGM | 800 | 1000 | 180 | 13.00 | 6.81 | 9.44 | 20 | 20 | FIG.18 | T | N/A |
| 31A-1000AGM | MS31A-1000AGM | 800 | 1000 | 180 | 13.00 | 6.81 | 9.44 | 20 | 20 | FIG.18 | A | N/A |
| 31-1125AGM | MS31-1125AGM | 950 | 1200 | 200 | 13.00 | 6.81 | 9.44 | 20 | 20 | FIG.18 | T | N/A |

| PART # | PERFORMANCE INFORMATION | | | Approx Dimension (mm) | | | WARRANTY MONTHS | | Assembly Figure No. | TERMINAL CONFG. | BATTERY HOLD DOWN | |
|---|-------------------------|----------|-----------|-----------------------|-------|--------|-----------------|-----------------|---------------------|-----------------|-------------------|-----|
| | CCA @ -17.8°C | CA @ 0°C | R/C @ 25A | Length | Width | Height | FREE REGULAR | FREE COMMERCIAL | | | | |
| 12 VOLT GARDEN, TRACTOR AND SNOWMOBILE | | | | | | | | | | | | |
| U1-280 | MSU1-280 | 210 | 260 | 30 | 7.75 | 5.19 | 7.31 | 12 | 6 | FIG.10 | X | N/A |
| U1R-280 | MSU1R-280 | 210 | 260 | 30 | 7.75 | 5.19 | 7.31 | 12 | 6 | FIG.11 | X | N/A |
| U1-425 | MSU1-425 | 300 | 375 | 40 | 7.75 | 5.19 | 7.31 | 12 | 6 | FIG.10 | X | N/A |
| U1R-425 | MSU1R-425 | 300 | 375 | 40 | 7.75 | 5.19 | 7.31 | 12 | 6 | FIG.11 | X | N/A |



BCI/JIS REFERENCE CHART



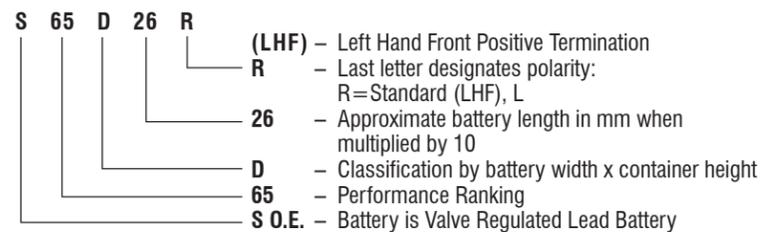
BCI / JIS REFERENCE CHART

Best Fit Estimate - BCI Group Size

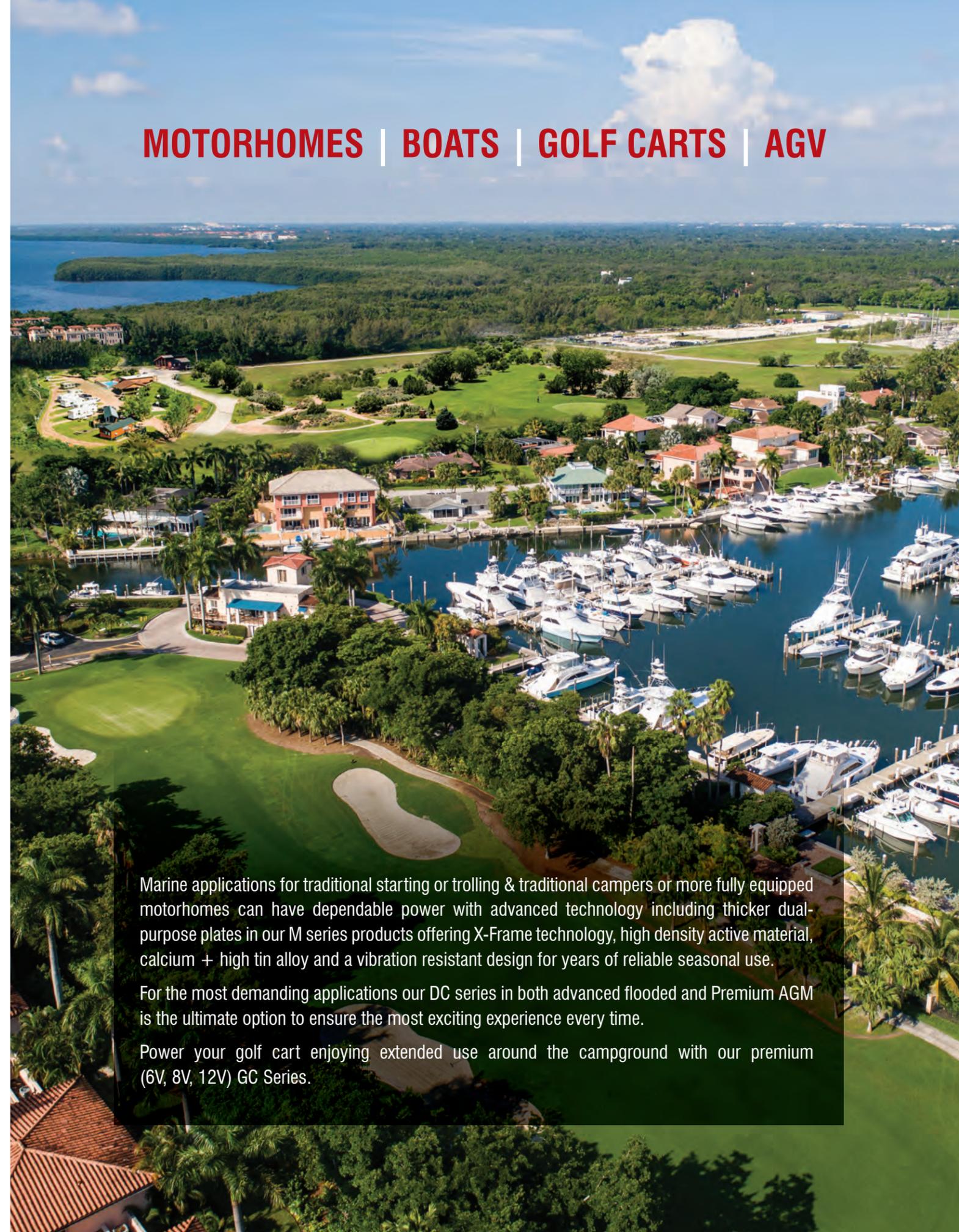
| BCI Group Number | BCI Assembly Figure | Maximum Overall Dimensions | | | JIS Reference Size Number Information | |
|-------------------|---------------------|----------------------------|---------|---------|--|--|
| | | Millimeters | | | JIS Type Designation | Conventional |
| | | L | W | H | | |
| 21 | 10 | 202 | 173 | 225 | 50D20R | N50S |
| 21R | 11 | 202 | 173 | 225 | 50D20L | N50SL |
| 24 | 10 | 260 | 173 | 225 | 48D26R, 55D26R, 65D26R, 75D26R, 80D26R, 110D26R | N50, N50Z, NS70 |
| 24R | 11 | 260 | 173 | 225 | 48D26L, 55D26L, 65D26L, 75D26L, 80D26L, 110D26L | N50L, N50ZL, NS70L |
| 25 | 10 | 232 | 173 | 225 | 55D23R, 65D23R, 70D23R, 75D23R, 80D23R | |
| 27 | 10 | 306 | 173 | 225 | 65D31R, 75D31R, 95D31R, 105D31R, 115D31R | N70, N70Z, NX120 |
| 27R | 11 | 306 | 173 | 225 | 65D31L, 75D31L, 95D31L, 105D31L, 115D31L | N70L, N70ZL, NX120-7L |
| 29H [Ⓟ] | 10 | 410 | 176 | 234 | 95E41R, 105E41R, 115E41R, 130E41R | N100 |
| N/A | — | 410 | 176 | 234 | 95E41L, 105E41L, 115E41L, 130E41L | N100L |
| 35 | 11 | 232 | 173 | 225 | 55D23L, 65D23L, 70D23L, 75D23L, 80D23L | |
| 51 [Ⓝ] | 10 | 238 | 129 | 227 | 46B24R, 55B24R, 65B24R | N40, NS60 |
| 51R [Ⓝ] | 11 | 238 | 129 | 227 | 46B24L, 55B24L, 65B24L | N40L, NS60L |
| 151R [Ⓝ] | 28 | 187 | 127 | 227 | 28B19L, 44B19L (S) (SAE Type A Post) | NS40L(S), NS40ZL(S) |
| 4D | 8 | 505 508 | 182 222 | 257 257 | 115F51 [Ⓞ] , 145F51 [Ⓞ] , 150F51 [Ⓞ] , 170F51 [Ⓞ] 145G51, 165G51, 180G51, 195G51 | N120 [Ⓞ] / NS150 [Ⓞ] N150 |
| 8D | 8 | 521 | 278 | 270 | 190H52, 210H52, 245H52 | N200 |
| N/A [Ⓝ] | 11 | 194 | 126 | 224 | S34B20L [Ⓞ] - Toyota Prius: Remote Venting | |
| N/A | 10 | 165 | 124 | 218 | S34B24R [Ⓞ] - Honda Insight | |
| N/A | 11 | 248 | 127 | 190 | 46A24L- Mazda Miata: Remote Venting | |
| N/A | — | 167 | 127 | 227 | 26B17L, 26B17R, 28B17L, 28B17R, 34B17L, 34B17R | |
| N/A | — | 187 | 127 | 184 | 26A19L, 26A19R, 28A19R, 32A19R | |
| N/A | — | 187 | 127 | 227 | 34B19L, 34B19R, 38B19L, 38B19R | |
| N/A | — | 238 | 135 | 232 | 32C24L, 32C24R | |
| N/A | — | 197 | 129 | 227 | S34B20L [Ⓞ] , S34B20R [Ⓞ] , 36B20L, 36B20R, 38B20L, 38B20R | |
| N/A | — | 238 | 127 | 227 | S46B24L [Ⓞ] (WS), S46B24R [Ⓞ] (WS) | |
| N/A | — | 232 | 173 | 225 | S55D23L [Ⓞ] , S55D23R [Ⓞ] | |
| N/A | — | 250 | 168 | 227 | S65D26L [Ⓞ] , S65D26R [Ⓞ] | |
| N/A | — | 305 | 173 | 225 | S75D31L [Ⓞ] , S75D31R [Ⓞ] | N70Z, N70ZL |

- Ⓝ OEM post may be small diameter JIS size, connector change may be required
- Ⓞ BCI designated Group 4D is 38 mm wider than JIS part, 4D will fit most JIS applications
- Ⓟ BCI Group 29H is 76 mm shorter in length than JIS Designated part
- Ⓞ OE Battery is valve regulated lead battery

JIS Number Interpretation



MOTORHOMES | BOATS | GOLF CARTS | AGV



Marine applications for traditional starting or trolling & traditional campers or more fully equipped motorhomes can have dependable power with advanced technology including thicker dual-purpose plates in our M series products offering X-Frame technology, high density active material, calcium + high tin alloy and a vibration resistant design for years of reliable seasonal use.

For the most demanding applications our DC series in both advanced flooded and Premium AGM is the ultimate option to ensure the most exciting experience every time.

Power your golf cart enjoying extended use around the campground with our premium (6V, 8V, 12V) GC Series.

MARINE / RV BATTERY



Magnacharge Battery designed to provide ultimate performance for a wide range of premium vehicles that require higher power support.

Key Benefits:

- Absorbent Glass Mat separator
- X-Frame Technology
- Reinforced case design
- High density active material
- Meets OE quality, performance & specification
- Calcium + High Tin Alloy
- Special Tissue & Micro Fibre
- Flexible design for semi-traction (deep cycling) and starting

SPECIFICATIONS:

| PART # | MCA | RES @ 25A | A.H. @ 20 HR | Approx Dimension - Inches(mm) | | | WARRANTY MONTHS | | TERMINAL CONFG. | BATTERY HOLD DOWN | |
|--|---------------|-----------|--------------|-------------------------------|-------------|------------|-----------------|-----------------|-----------------|-------------------|-----|
| | | | | Length | Width | Height | FREE REGULAR | FREE COMMERCIAL | | | |
| MAGNACHARGE 12V MARINE STARTING/DUAL PURPOSE | | | | | | | | | | | |
| 24M-650 | MS24M-650 | 600 | 70 | N/A | 10.25 (260) | 6.77 (172) | 8.66 (220) | 18 | 6 | M | B1 |
| 24M-800 | MS24M-800 | 750 | 105 | N/A | 10.25 (260) | 6.77 (172) | 8.66 (220) | 24 | 6 | M | B1 |
| 24M-1000 | MS24M-1000 | 950 | 140 | N/A | 10.25 (260) | 6.77 (172) | 8.66 (220) | 30 | 6 | M | B1 |
| 27M-1000 | MS27M-1000 | 1000 | 160 | N/A | 11.89 (302) | 6.77 (172) | 8.66 (220) | 30 | 6 | M | B1 |
| MAGNACHARGE 12 VOLT AGM DEEP CYCLE | | | | | | | | | | | |
| 24DC-140AGM | MS24DC-140AGM | 900 | 140 | 75 | 10.23 (260) | 6.85 (174) | 8.66 (220) | 20 | 12 | M | B1 |
| 27DC-180AGM | MS27DC-180AGM | 900 | 175 | 90 | 11.89 (302) | 6.85 (174) | 8.66 (220) | 20 | 12 | M | B1 |
| 31DC-205AGM | MS31DC-205AGM | 1140 | 200 | 100 | 13.07 (332) | 6.77 (172) | 9.09 (231) | 20 | 12 | M | N/A |
| MAGNACHARGE 12V DEEP CYCLE | | | | | | | | | | | |
| 24DC-130 | MS24DC-130 | 700 | 120 | 80 | 10.12 (257) | 6.77 (172) | 8.66 (220) | 18 | 6 | M | B1 |
| 24DC-140 | MS24DC-140 | 850 | 140 | 85 | 10.12 (257) | 6.77 (172) | 8.66 (220) | 18 | 6 | M | B1 |
| 27DC-180 | MS27DC-180 | 925 | 175 | 105 | 11.89 (302) | 6.77 (172) | 8.66 (220) | 18 | 6 | M | B1 |
| 31DC-205 | MS31DC-205 | 1000 | 195 | 120 | 12.99 (330) | 6.77 (172) | 9.53 (242) | 18 | 6 | M | B0 |
| MAGNACHARGE 6V, 8V, 12V DEEP CYCLE | | | | | | | | | | | |
| GC-225 | MSGC-225 | N/A | 440 | 220 | 10.30 (262) | 7.11 (181) | 11.07 (281) | 18 | 12 | LPT | N/A |
| GC8-875 | MSGC8-875 | N/A | 300 | 156 | 10.21 (259) | 7.06 (179) | 11.14 (283) | 18 | 12 | LPT | N/A |
| GC-12V | MSGC-12V | N/A | 260 | 140 | 12.96 (329) | 7.13 (181) | 10.71 (272) | 18 | 12 | LPT | N/A |

BATTERIES FOR MARINE & RV

| Features | Benefits |
|---|--|
| Dual Purpose Plate(Starting & Deep Cycling) <ul style="list-style-type: none"> - X-Frame (Pos. / Neg.) - Special (Thicker) Plate with high density active material - Calcium + High Tin Alloy - Special tissue & Micro Fibre | Longer Life & High Cycle Stability <ul style="list-style-type: none"> - High endurance in deep cycle service - Flexible design for semi-traction (deep cycling) and starting - Prevents internal short circuits - More power to terminal posts - Reserves more electrolyte volume over the plate |
| Vibration Resistant Design <ul style="list-style-type: none"> - Low resistance enveloped separator with Glass Mat - Hot melt glue - Reinforced container | |

X-Frame (Pos. / Neg.)



Full Framed Grid (Round edge design)

- Full Framed Grid design restrains grid growth and short-circuits
- Benefit : Upgraded quality, and longer life span

Unique designed grid for electric flow

- Mechanically punched grids, ensures high electric conductance and strong adhesion of active materials
- Benefit : Providing higher starting power, stable structure, and less corrosion



Upgraded Active Material

- Provides high endurance in deep cycle service



Low Resistance Enveloped Separator with Fleece

- Prevents internal short circuits between positive and negative plates

Common Structure & Advantage (Marine & RV)

Convenience and stability

Ergonomically Designed Handle

- Provides easy transportation and installation

Special Sealed Cover

- Protects the battery from acid leakage and minimizes gassing
- Flame arrestor prevents an inflow of outside spark

Excellent Performance

Hot Melt Glue to resist vibration

- Ensures resistance to outside impact and vibration, and minimizes loss of active materials

Special Tissue

- Provides a mechanical support for adhesion of active material during service

Magic Eye Indicator

- Easy to check Charging-State

Marine Twin (Dual=SAE/Wing-Nut) Terminal

- Quick connection
- Compatibility with TOP POST and STUD



5/16" -18 THREADS

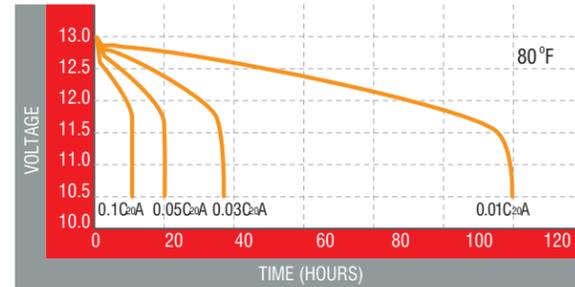
BATTERIES FOR MARINE & RV

Charge and Discharge Characteristics

Charge characteristics from 20% DOD, 31DC-205



Discharge characteristics



Charging Method

- Batteries should be recharged immediately after use
- Charging times vary and rate can be determined by the SOC(State Of Charge)

Method 1 ; Constant Voltage Charge
(Recommended Method)

| Type | Voltage Setting |
|---------------------|-----------------|
| Daily Cycle Service | 14.4~14.8 |
| Floating Service | 13.2~13.7 |
| Equalizing | 15.5 |

* Unit Average at 77 °F (25 °C)

- Every 30 to 90 days, perform an equalizing charge. Daily cycle use and deep discharge requires more frequent equalizing

End of charge

- Current : below 1.0A during charge
- Stabilized open circuit voltage : 12.75V or higher

Method 2 ; Constant Current charge

| Battery | | 24DC140 | 27DC180 | 31D205 |
|---------|--------|---------|---------|--------|
| SOC | OCV | 4.0A | 4.5A | 5.0A |
| 100% | 12.75V | | - | |
| 75% | 12.40V | | 6 Hrs | |
| 50% | 12.20V | | 12 Hrs | |
| 25% | 12.00V | | 18 Hrs | |
| 0% | 11.90V | | 24 Hrs | |

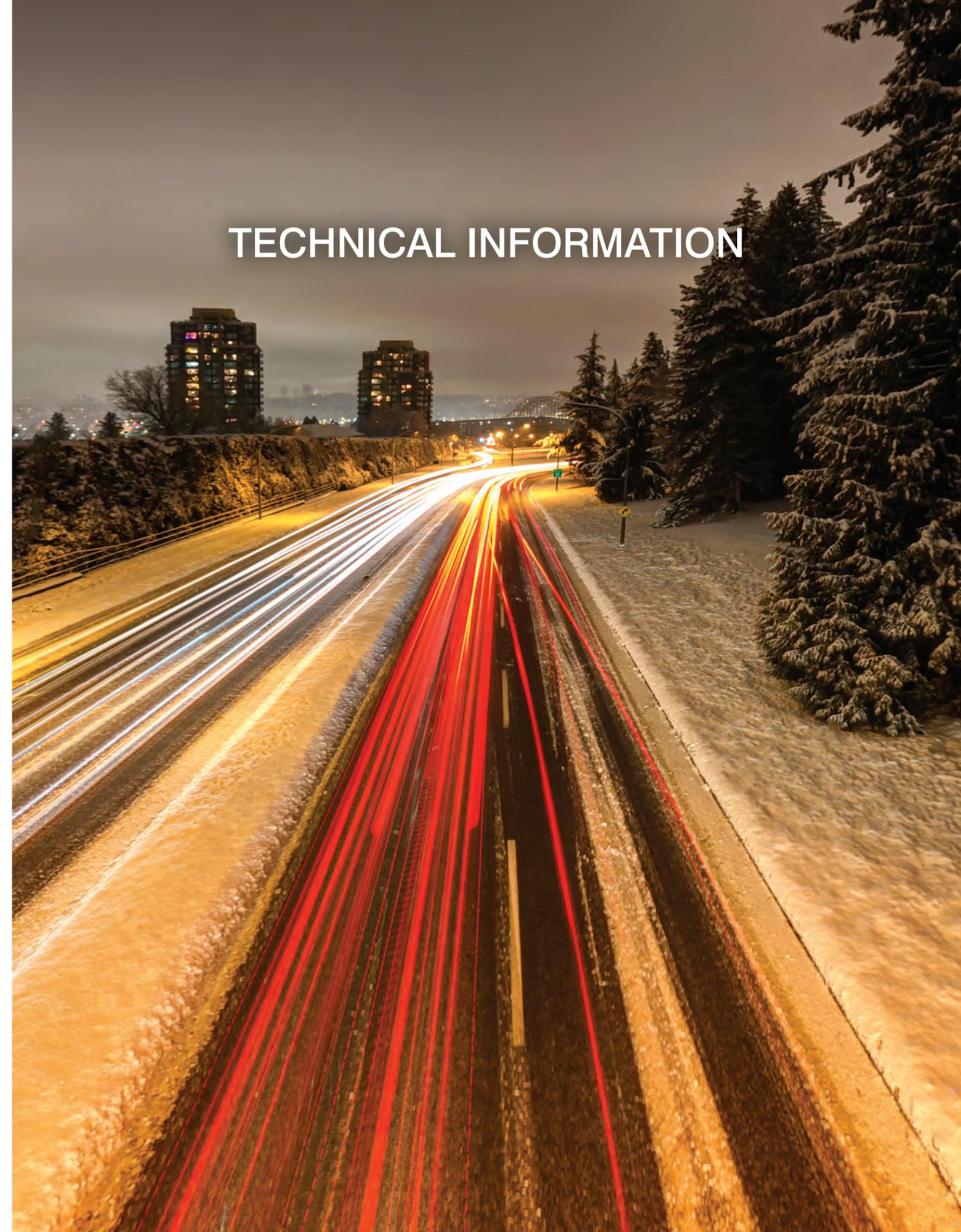
End of charge

- Maximum voltage output across the battery terminals is maintained at constant level for 2 hours during the charge
- Stabilized open circuit voltage : 12.75V or higher

Hours of Usable Power(H.U.P)

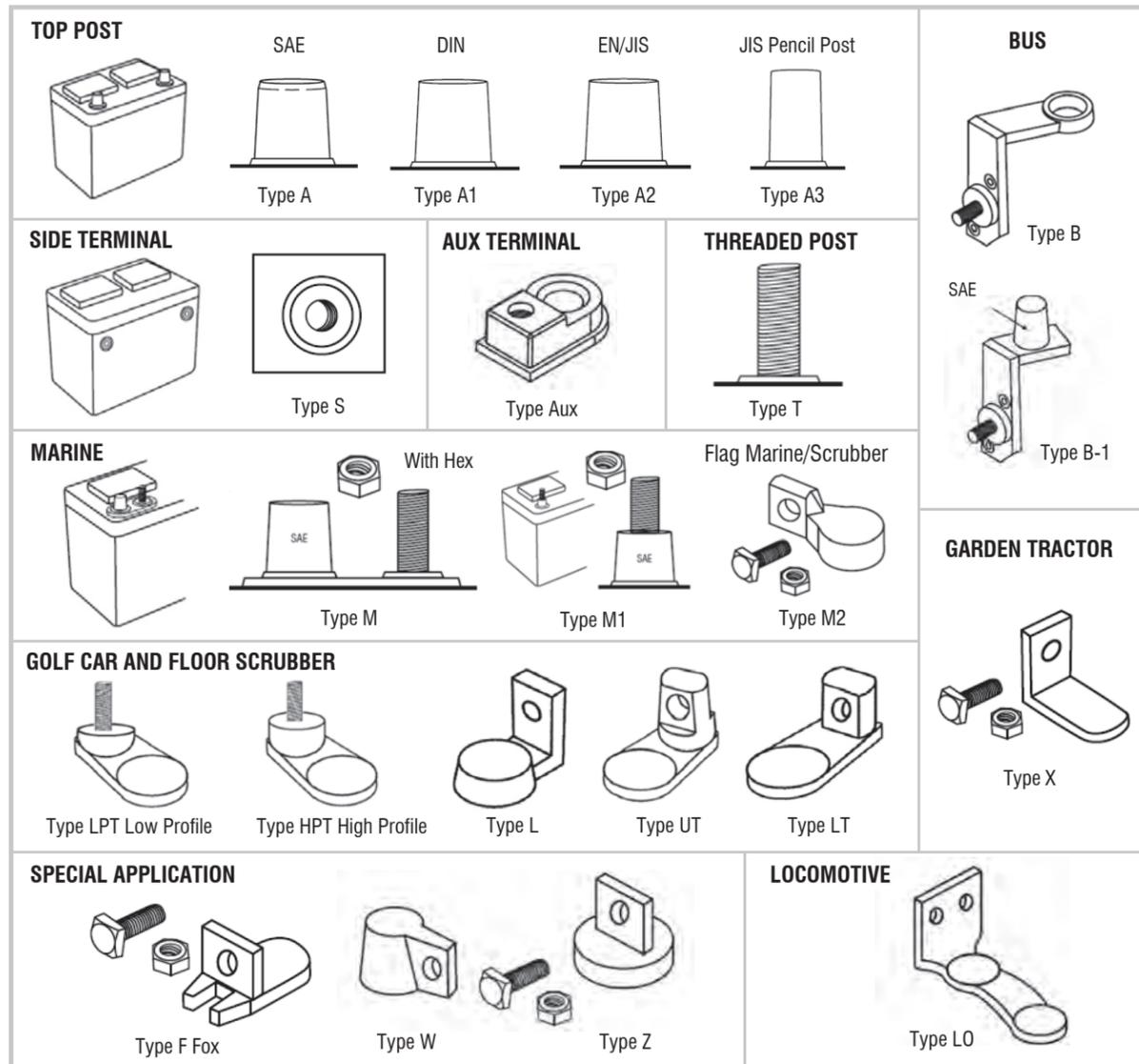
| Amp.Draw | 5A | 15A | 25A |
|----------|----------|---------|---------|
| 24DC140 | 15.4Hrs. | 4.3Hrs. | 2.4Hrs. |
| 27DC180 | 17.8Hrs. | 4.9Hrs. | 2.7Hrs. |
| 31DC205 | 20.0Hrs. | 5.6Hrs. | 3.1Hrs. |

TECHNICAL INFORMATION



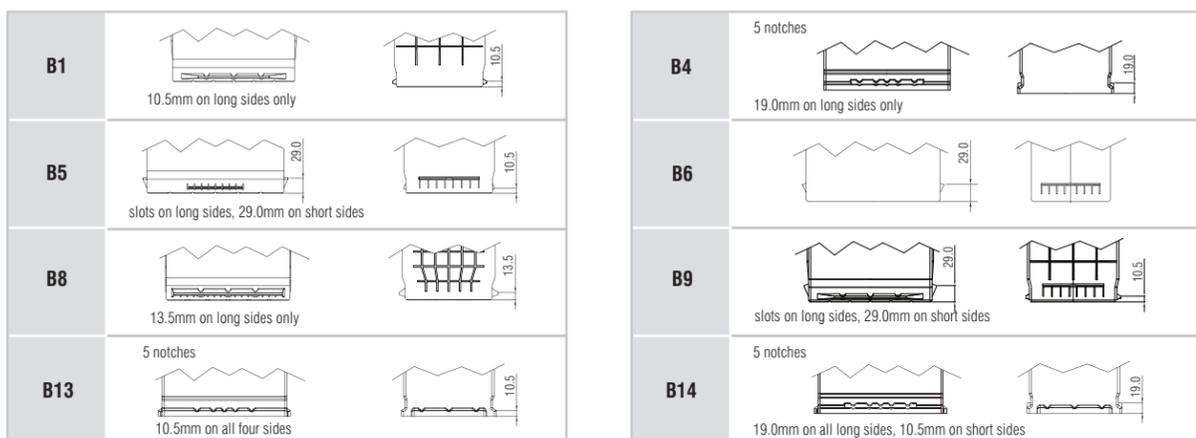
TECHNICAL INFORMATION

Terminals



Designs and designations supplied for reference only.

Hold Down

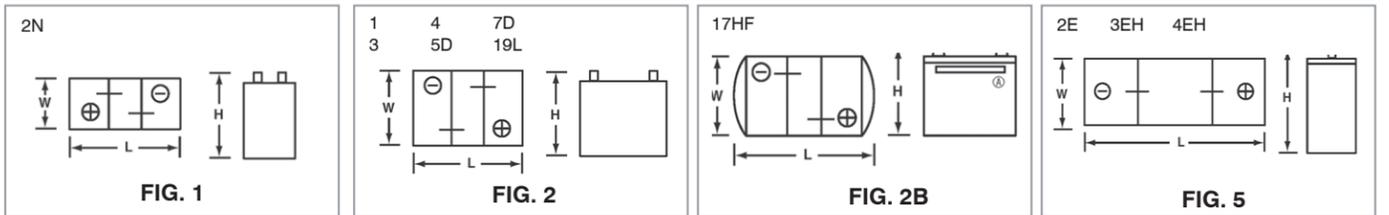


* For B0 there is no Hold-Down

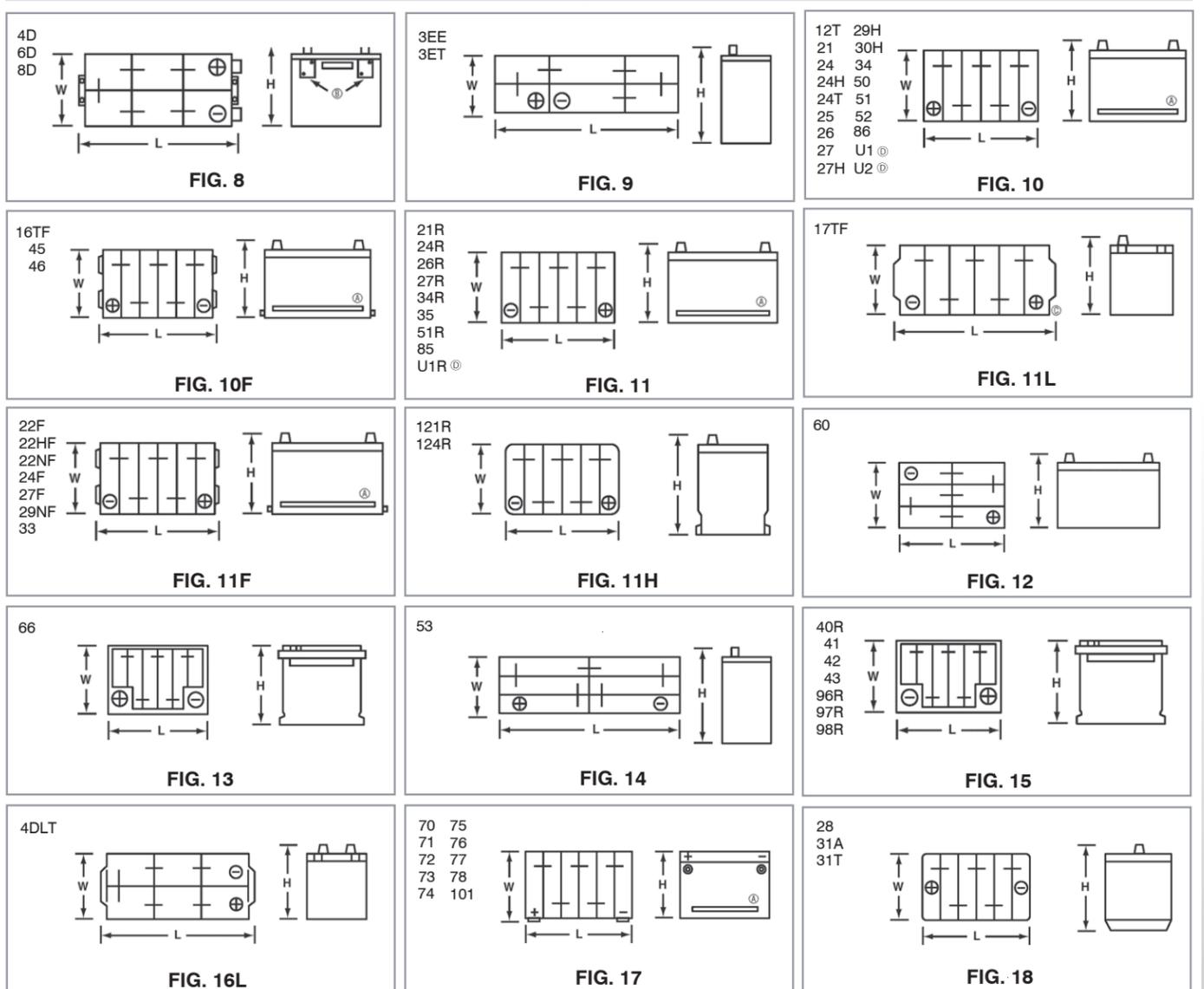
TECHNICAL INFORMATION

BCI Assembly Numbers, Cell Layouts, Holddowns and Polarity

6 Volt Assemblies - Terminal Positions & Cell Layouts



12 Volt Assemblies - Terminal Positions & Cell Layouts

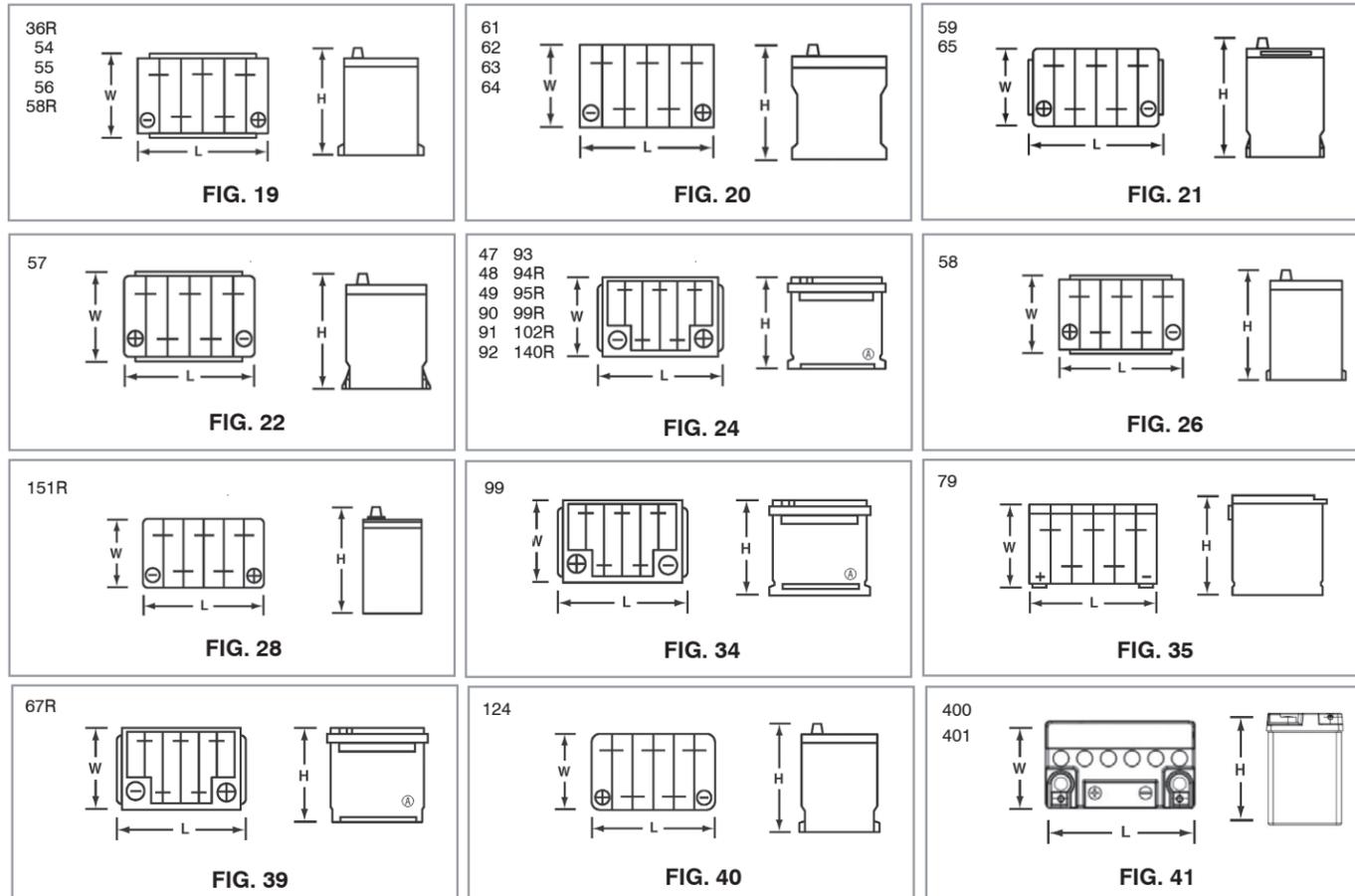


(A) Holddown Ledge (B) Bus Terminal (8D only) - Optional (C) Lifting Ledge (D) With X Terminal

TECHNICAL INFORMATION

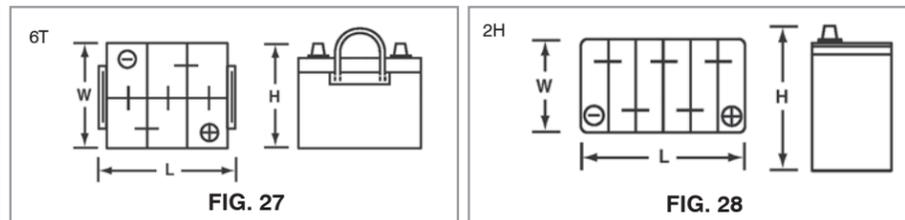
BCI Assembly Numbers, Cell Layouts, Holddowns and Polarity

12 Volt Assemblies - Terminal Positions & Cell Layouts

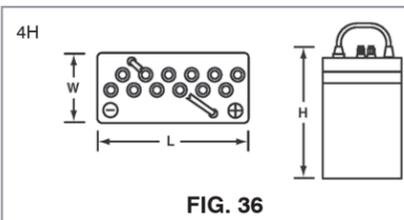


(A) Holddown Ledge (B) Bus Terminal (8D only) - Optional (C) Lifting Ledge (D) With X Terminal

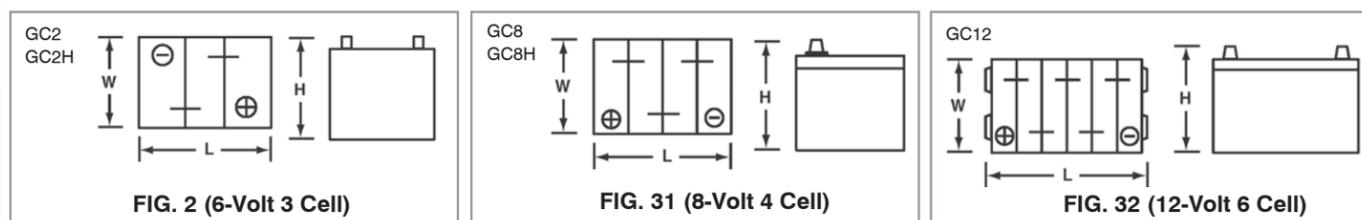
Ordinance Batteries 12-Volt - Terminal Position & Cell Layouts



Ordinance Battery 24-Volt



Electric Golf Car/Utility Batteries - Terminal Position & Cell Layouts



TECHNICAL INFORMATION



PRECAUTION

If treated with care and taking the proper precautions, lead acid batteries can be handled safely with minimum risk. However, lead acid batteries contain sulfuric acid which is both poisonous and corrosive. This makes them potentially hazardous and it can cause serious injury when standard handling procedures and safety measures are not followed.

Safety

- Always wear acid resistant clothing, protective goggles, PVC gloves and safety shoes.
- Keep metal objects away from terminals.
- Batteries are heavy. Lift carefully and do not place on unstable surfaces.
- Keep away from children.

Emergency Action

- Splashes in eyes : Wash out eyes with plenty of water for at least 15 minutes.
- Splashes on skin : Remove contaminated clothing carefully and wash the affected skin areas with plenty of water.
- Swallowed : Drink copious amounts of water or milk. Do not induce vomiting.

Storage

- Keep batteries upright.
- Batteries should not be directly exposed to the sun.
- Keep batteries clean and always store in a cool, dry place.
- Never stack over 4 layers.
- In all cases, (First In, First Out) storage procedure should be applied.

Installation

- Check that vehicle's engine is turned off.
- Remove the negative terminal connection of the old battery.
- Remove the positive terminal connection, and then remove the hold-down bracket or clamp.
- Remove the old battery and install new battery in the tray
- Prior to replacing the new one, inspect the tray for corrosion. Clean the battery tray and battery terminals using a wire brush, if necessary.
- Connect the negative terminal. The positive terminal should always be connected last.

Disposal

- Batteries must NEVER be disposed of in household waste.
- Batteries are recyclable material.
- Do not throw away.



NEVER DROP
NEVER OVERTHROW



NEVER STACK
OVER 4 LAYERS



KEEP UPRIGHT



NEVER TIP
OVER 45°



RECYCLE



Pb



No smoking, no naked
flames, no sparks



Shield
eyes



Keep away
from children



Battery
acid



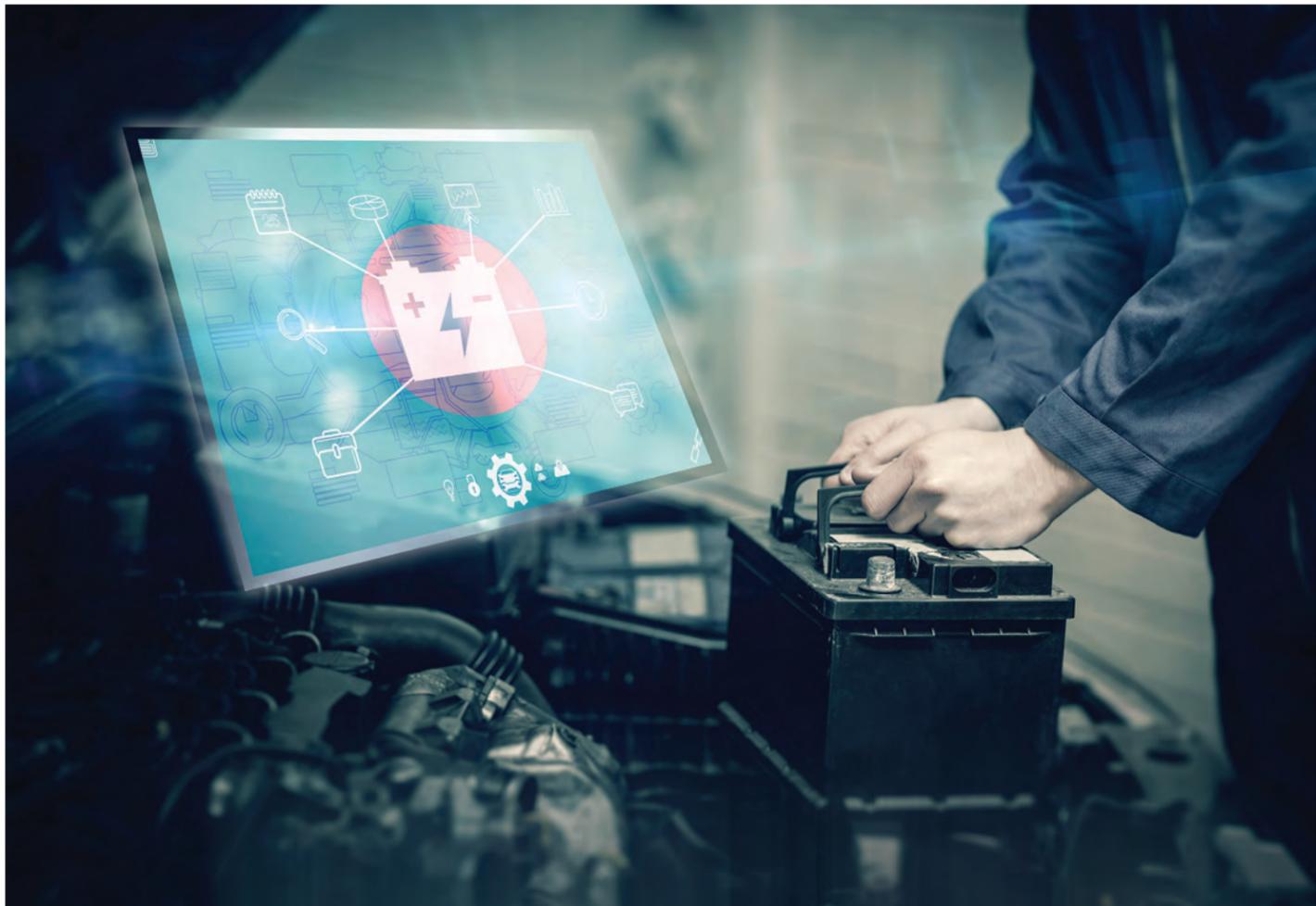
Explosive
gas



Note operating
instructions

POWER FOR EVERY PURPOSE





BATTERY TESTING PROCEDURES

A. Visual Check

- Check the Container, Cover and Terminals. Where physical damage is present, replace the battery.
- Check the Indicator (If the battery has the Indicator). When viewing the Indicator, lightly tap the Indicator on the battery to dislodge any air bubbles.

B. Voltage Check

- If OCV is below 12.4V, recharge the battery immediately.

C. Discharge Test (Load Test)

- Connect the battery tester to battery terminals.
- Apply the load for 15 seconds and then read the voltage.
- Compare measured values with values in TABLE 2.
- If the values are outside of the table values, recharge the battery and test again.
- If the battery fails the load after multiple cycle tests, replace it.
- Electronic testers are not recommended as they may provide false test results and can not consistently rate the performance of new or unused batteries.
- Carbon pile load testers are recommended.



TABLE 1. State of Charge

| Approx. State of Charge | OCV |
|-------------------------|--------|
| 100% | 12.75V |
| 75% | 12.40V |
| 50% | 12.20V |
| 25% | 12.00V |
| Discharged | 11.90V |

* For Reference Only

TABLE 2. Load Test

| Minimum Voltage | Temperature |
|-----------------|--------------|
| 9.6V | 21°C & Above |
| 9.4V | 10°C |
| 9.1V | -1°C |
| 8.9V | -7°C |
| 8.5V | -18°C |

BATTERY CHARGING PROCEDURE

If the battery is below 12.4V or fails to pass the load test, battery must be recharged as soon as possible to prevent lead sulfation. During charge, if the battery releases electrolyte through the vent holes or overheats (over 52°C), the charge must be stopped allowing the battery to cool down.



Constant Current Charge

General guidelines for constant-current-charge are given in TABLE 3. The table summarizes approximate amperes and hours in need of charge according to 20Hr-rate capacity and OCV.

Constant Voltage Charge

As the battery is being charged, the current is reduced. Generally this method needs more time than the constant-current-charge, but overcharge risk is lower.

End of Charge

If a battery has been properly charged, voltage output across battery terminals on charge will be maintained for 2 hours.

TABLE 3. Constant Current Charge Condition

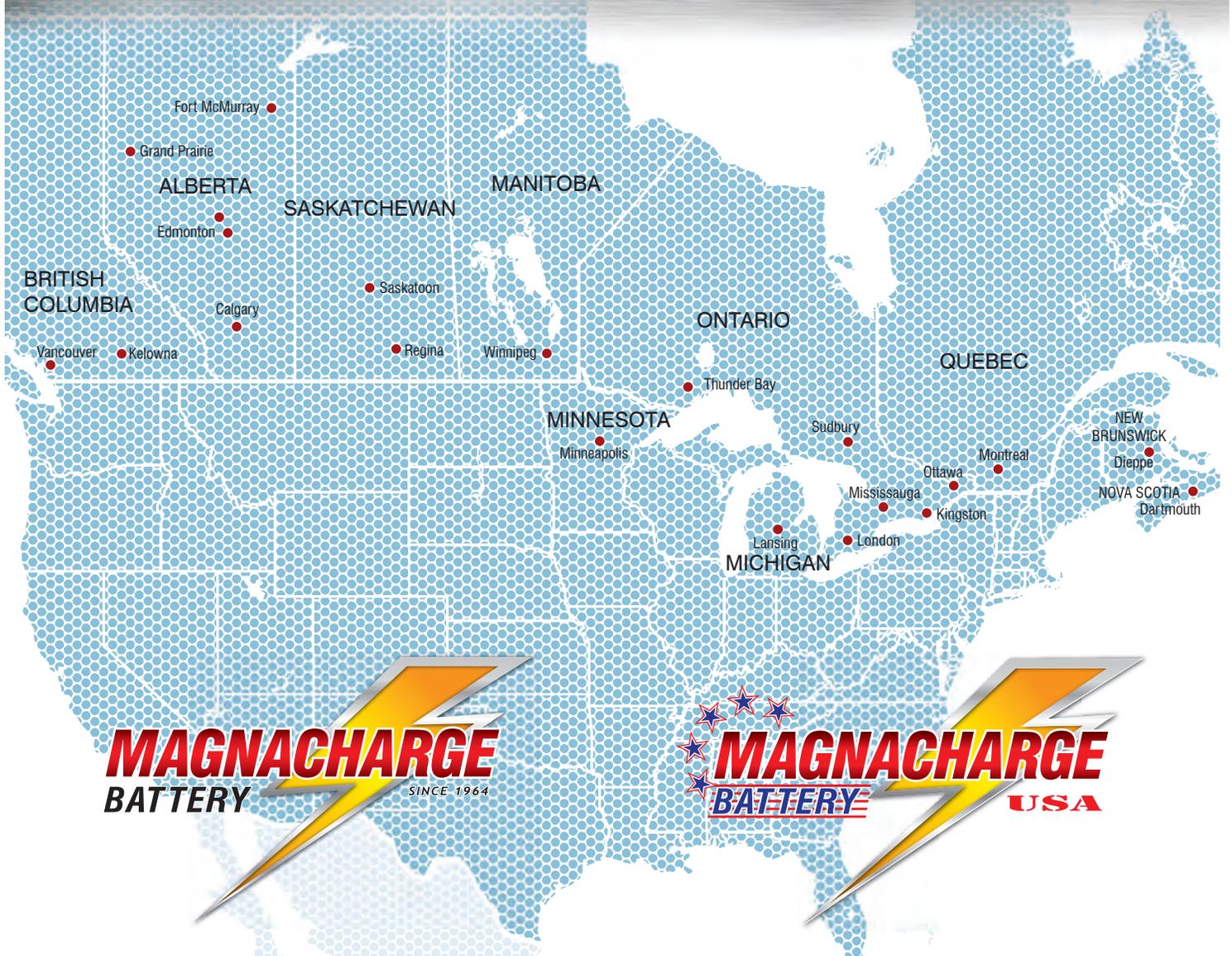
| OCV | 31-40AH | 41-50AH | 51-60AH | 61-70AH | 71-80AH | 81-90AH | 91-100AH | 101-110AH |
|--------------|---------|---------|---------|---------|---------|---------|----------|-----------|
| 12.4-12.49V | 4X3 | 5X3 | 6X3 | 7X3 | 8X3 | 9X3 | 10X3 | 11X3 |
| 12.3-12.39V | 4X5 | 5X5 | 6X5 | 7X5 | 8X5 | 9X5 | 10X5 | 11X5 |
| 12.2-12.29V | 4X7 | 5X7 | 6X7 | 7X7 | 8X7 | 9X7 | 10X7 | 11X7 |
| 12.1-12.19V | 4X8 | 5X8 | 6X8 | 7X8 | 8X8 | 9X8 | 10X8 | 11X8 |
| 12.0-12.09V | 4X10 | 5X10 | 6X10 | 7X10 | 8X10 | 9X10 | 10X10 | 11X10 |
| Below 11.99V | 4X13 | 5X13 | 6X13 | 7X13 | 8X13 | 9X13 | 10X13 | 11X13 |

* 4X3 means 4 amperes and 3 hours



Every Battery. Every Purpose. Every Time.

COAST TO COAST IN CANADA & USA



MAGNACHARGE
BATTERY SINCE 1964

MAGNACHARGE
BATTERY USA

BRITISH COLUMBIA

- 1279 Derwent Way, Delta BC V3M 5V9
- 890 Dalton Road, Kelowna, BC V1X 2P9

ALBERTA

- Unit 1, 16101-101 Street, Grande Prairie, AB T8V 0P2
- 12036 149 Street, Edmonton, AB T5V 1P2
- Unit 2A 9730 51 Ave, S. Edmonton, AB T6E 0A6
- 4517 Manhattan Rd., SE Calgary, AB T2G 4B3
- Unit 1A & 2A, 380 McKenzie Blvd., Fort McMurray, AB T9H 4C4

SASKATCHEWAN

- 2518 Faithfull Ave., Unit #106, Saskatoon, SK S7K 6R3
- 810 McDonald St., Bay 2, Regina, SK S4N 2X6

MANITOBA

- 977 century Street, Winnipeg, MB R3H 0W4

NEW BRUNSWICK

- 170 Dieppe Blvd., Dieppe NB E1A 6P8

NOVA SCOTIA

- 10 Ilsley Avenue, Unit #11, Dartmouth, NS B3B 1L3

ONTARIO

- 1295 Mid-way Blvd, Mississauga, ON L5T 2G8
- 660 Justus Drive, Unit D, Kingston, ON K7M 4H4
- 278 Lorne Street, Sudbury, ON P3C 4P7
- 640 Newbold Street, London, ON N6E 2T6
- 625 West Arthur St., Thunder Bay, Ontario P7E 5R6
- 4-505 Industrial Avenue, Ottawa, ON K1G 0Z1

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