

ASSOCIATED

PRODUCT CATALOG



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HOCKMAN-LEWIS LIMITED

WHY BATTERY SUPPORT IS CRITICAL

DURING VEHICLE SCANS, PROGRAMMING, AND ADAS CALIBRATIONS

As modern vehicles become increasingly software-driven, the importance of proper battery support during diagnostic scans, module programming, and ADAS calibrations can no longer be overstated. What was once a quick scan tool connection is now a complex electronic procedure involving dozens of control modules, constant network communication, and extended ignition-on time. In this environment, battery voltage stability is not just best practice—it is essential to protecting vehicle electronics and ensuring successful service outcomes.

THE HIDDEN ELECTRICAL LOAD OF MODERN VEHICLES

When a vehicle is placed in diagnostic mode or prepared for ADAS calibration, it often operates in a state very different from normal driving. The ignition may remain on for long periods while safety systems, cameras, radar modules, power steering, brake controllers, infotainment systems, and body modules remain active simultaneously. Cooling fans may cycle on and off, and network traffic across CAN, LIN, and Ethernet systems increases dramatically.

All of this places a sustained electrical load on the battery. Even a healthy battery can experience rapid voltage drop under these conditions, especially if the vehicle is not running. Without external battery support, voltage instability becomes likely—and that is where problems begin.

WHY VOLTAGE STABILITY MATTERS

Most OEMs specify a narrow voltage range during programming and calibration events, generally centered around the mid-13-volt range. Voltage that drops too low can cause modules to shut down mid-process, while voltage that spikes too high can trigger programming faults or abort procedures

entirely. Either scenario can corrupt data being written to a control module. (Although the common reflash voltage setting is 13.9V, depending on vehicle brand the range can be between 13.5V to 14.4V, each OE requires an exact voltage setting or the reflash will not take) when considering the purchase of a clean power supply it might be wise to consider one with adjustable voltage settings capabilities.

In the worst cases, insufficient or unstable voltage can permanently damage an electronic control unit, rendering it inoperable—commonly referred to as a “bricked” module. Replacing these modules can cost thousands of dollars and may require dealer-only access for setup and coding.

AMPERAGE: THE OFTEN-OVERLOOKED REQUIREMENT

While voltage specifications are widely discussed, amperage capacity is where many service operations run into trouble. It is not enough for a power supply to reach the correct voltage if it cannot sustain the current demanded by the vehicle.

For many Asian and domestic vehicles, a support unit capable of approximately 60 amps is typically sufficient. However, certain manufacturers—particularly European brands—place significantly higher demands on the electrical system during programming and calibration. Vehicles from BMW and Mercedes-Benz, for example, often require power support capable of 100 amps or more to remain within safe operating margins.

These higher current requirements reflect heavier module loads, more complex network architectures, and stricter OEM protections designed to prevent data corruption during software updates.

BATTERY SUPPORT UNITS VS. TRADITIONAL CHARGERS

A common misconception is that any battery charger can serve as adequate support during scans and calibrations. Traditional chargers are designed to replenish battery capacity, not to act as a stable power source for sensitive electronics.

Dedicated Battery Support Units (BSUs) or service power supplies are engineered specifically for diagnostic and programming environments. They provide tightly regulated voltage, rapid response to load changes, and low electrical ripple—qualities that are critical when working with ADAS sensors and modern vehicle networks.

Many OEM procedures explicitly require placing the support unit into a “power supply mode,” ensuring the vehicle receives consistent electrical power independent of battery condition.

ADAS CALIBRATION RAISES THE STAKES

ADAS calibration amplifies the need for proper battery support. These procedures often require the vehicle to remain powered for extended periods while sensors are initialized, measured, and synchronized. Any interruption—whether from voltage sag or current limitation—can force recalibration or invalidate results.

Additionally, ADAS systems rely on precise electronic signals. Electrical noise or ripple introduced by inadequate power equipment can interfere with

sensor communication, leading to calibration failures that are difficult to diagnose.

PRACTICAL GUIDELINES FOR SHOPS

While exact specifications vary by manufacturer, some practical guidelines emerge across OEMs:

- Most vehicles require a stable voltage centered around 13.9V during programming and calibration.
- Current capacity of at least 60 amps should be considered a baseline for modern vehicles.
- European platforms and high-content vehicles often demand 70–100 amps to safely support all active systems.
- Voltage must remain stable throughout the entire procedure—brief drops below acceptable thresholds can cause failure.

Technicians should always consult OEM service information, but having a capable battery support unit in place ensures those specifications can be met consistently.

PROTECTING VEHICLES, SHOPS, AND TECHNICIANS

Proper battery support is not just about avoiding failed scans—it is about risk management. A single voltage-related module failure can erase the profit from dozens of successful repairs. More importantly, it can damage customer trust and expose the shop to unnecessary liability.

As vehicles continue to evolve, battery support equipment should be viewed as foundational infrastructure, not an optional accessory. Just as alignment racks and scan tools have become indispensable, so too has reliable, high-capacity battery support.

CONCLUSION

Modern diagnostics, programming, and ADAS calibrations demand clean, stable, and adequately sized electrical power. Relying on the vehicle battery alone—or on undersized charging equipment—introduces unnecessary risk during some of the most sensitive procedures performed in today’s service bays.

By understanding OEM voltage and current expectations and investing in proper battery support, shops can improve repair success rates, protect expensive electronic modules, and confidently service the advanced vehicles their customers rely on every day.





HEAVY DUTY FLEET CHARGERS



**DEPENDABLE. DURABLE.
BUILT FOR PROFESSIONALS.**

- Protective guage cover
- Patented "Stop/Go" light for polarity indication
- Rugged 7" tires
- "Safe in any weather" operation

6001A 6/12 Volt Heavy Duty Fleet Charger

6 VOLT 100 AMP	12 VOLT 75 AMP	375 AMP 12 VOLT ENGINE START
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6002B 6/12/18/24 Volt Heavy Duty Fleet Charger

6 VOLT 100 AMP	12 VOLT 80 AMP	18 VOLT 50 AMP	24 VOLT 40 AMP
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400 AMP 12 VOLT ENGINE START

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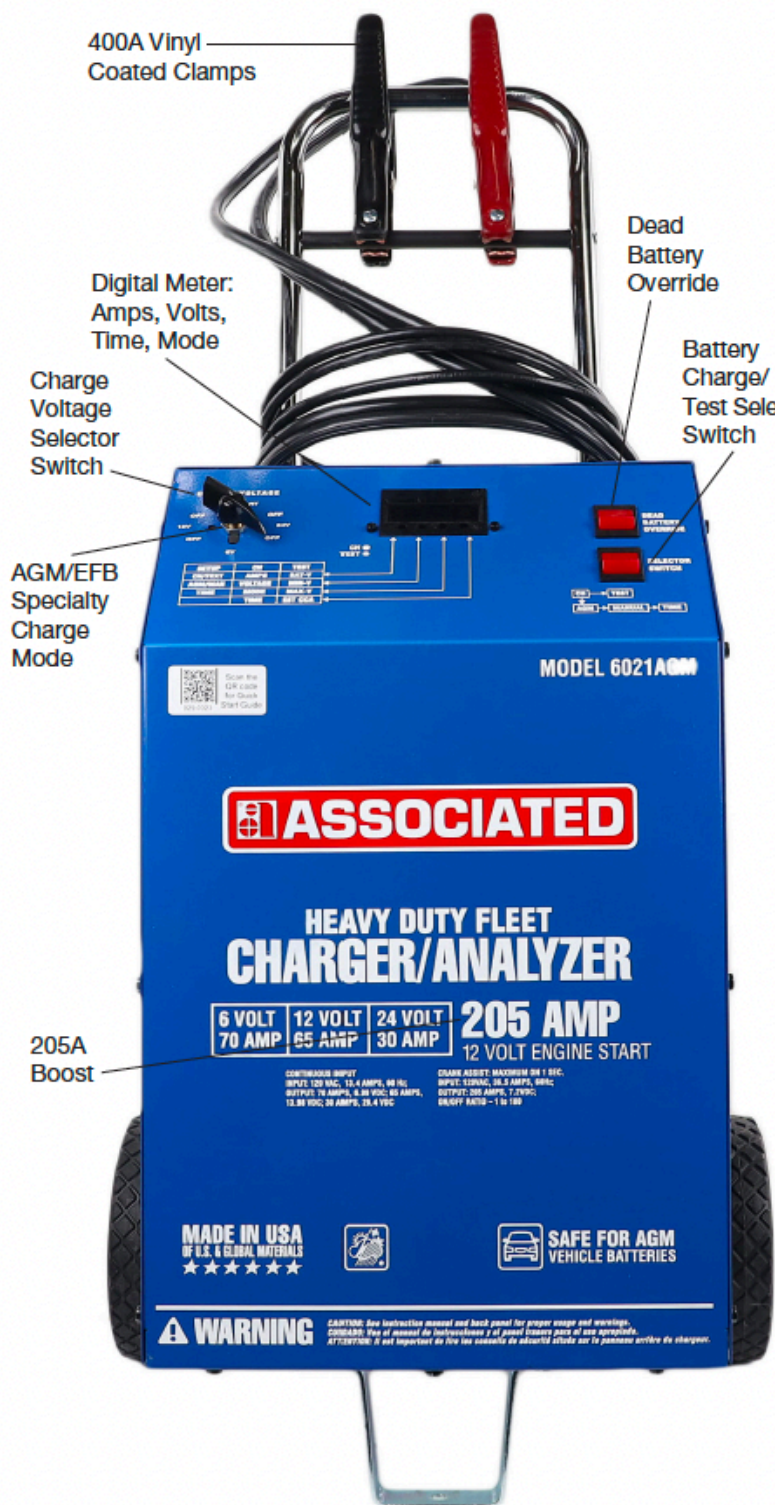
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MODEL 6021 AGM

6/12/24 VOLT HD FLEET CHARGER/ANALYZER



Battery Tester & Charger In One! Safe for AGM & EFB Batteries

PRODUCT SPECIFICATIONS AND FEATURES

Battery Charger

- 6/12/24V Wheeled Charger/Analyzer
- 70/65/30 Charging Amps
- 205 Amp Crank Assist
- Digital Meter: Amps, Volts, Time, Mode
- Dead Battery Override Switch
- Manual Mode w/Adjustable Digital Timer (5-180 Minutes)
- Overcurrent & Wrong Voltage Setting Safety Features
- 6 Volt Charge Setting Used For 12 Volt Float Mode at 13.3 Volts

AGM/EFB Specialty Charge Mode

- Battery Fault Indicator
- Auto Restart in AGM setting

Battery Tester

- Automated Load Test
- Automatic Surface Charge Removal
- Battery Out of Parameter Notification & Override Capability During Load Testing
- Displays Active Voltage, Max-Voltage, Min-Voltage, Approximate CCA

MADE IN USA
OF U.S. & GLOBAL MATERIALS
★★★★★



Safe in Any
Weather



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MODEL 6021 AGM

6/12/24 VOLT HD FLEET CHARGER/ANALYZER

UL or CSA Continuous Rating	Crank Assist	Operating Charging Voltage	Battery Types	Indoor/ Outdoor	DC Cable Length and Gage	Clamp Rating	A/C Cord Length	Weight (Lbs)	Dimensions(LxWxH)
70/65/30A	205A	6/12/24V	SLA/AGM/EFB	Yes	6.5' 4AWG	400A	6.5' 120VAC	56	17.25x16.5x26.5

SPECIFICATIONS	
Model Number	6021AGM
Battery Types	SLA, AGM, EFB
Display	Digital - LED
Display (during battery test)	Active Voltage, Max-Voltage, Min-Voltage, Approxomite CCA
DC Leads	6.5' 4AWG Dual Extruded
Clamp Rating	400 A
AC Cord	6.5' 16-3
Power Requirements and Consumption	12A 120VAC 60Hz
Charger Output	70/65/30
Industry Approval	cCSAus
Limited Warranty	Two-year Parts/Labor - Five Years Transformer/Rectifier
Country of Origin	MADE IN USA of US and Global Components
UPC	0 99684 00731 3
HTC	8504.40.9550
Shipping Dimensions	17.25 X 16.5 X 26.5
Weight	56 LBS



6006AGM

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6033

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6021AGM





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MODEL 6006AGM

6/12/24 VOLT WHEEL CHARGER



Safe for AGM & Sealed Lead Acid Batteries

PERFORMANCE & CAPABILITY

- 70/65/30 Amp continuous rating
- Vacuum impregnated heavyduty transformer to seal the unit against external agents
- Multi-diode rectifiers (patented) to take over in case of failure
- Fan cooling mechanism prevents overheating enhancing unit's life span significantly

SAFETY & CONSTRUCTION

- CSA listed with "Safe in Any Weather" operation
- Will not arc or spark
- Patented "Flexi-Spring" cable guards relieve cable stress
- Heavy-duty chrome plated handle

WARRANTY

- 2-Years Bumper to Bumper Warranty
- Five-Year limited warranty on transformer and rectifier

MADE IN USA

280A Boost



HEAVY DUTY FAST CHARGERS

Smart. Fast. Powerful.

6012AGM



6009AGM



- New 12V Safe for AGM Setting
- Patented “Stop/Go” Light for Polarity Indication
- “Safe in any weather” operation

6012AGM 6/12 Volt Heavy Duty Charger

6 VOLT
70 AMP

12 VOLT
60 AMP

250 AMP
12 VOLT ENGINE START

6009AGM 6/12 Volt Heavy Duty Charger

6 VOLT
70 AMP

12 VOLT
60 AMP

265 AMP
12 VOLT ENGINE START

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Professional Battery & Electrical System Testers **BUILT FOR ACCURATE, RELIABLE DIAGNOSTICS**



MODEL 6042 – Battery & Electrical System Tester

12V carbon pile load tester with full 12/24V system diagnostics. Designed for accurate battery evaluation and fast troubleshooting of charging, starting, and current leakage issues.

Key Features

- Tests batteries up to 1000 CCA
- 0–500A variable carbon pile load control
- LCD displays voltage and positive/negative amps
- Diagnoses charging, starting, and parasitic draw
- Tests 12V & 24V electrical systems
- Works on all battery types
- Heavy-duty leads for testing up to 15 ft apart
- Accurate for remotely mounted batteries
- Includes 6043 AC/DC inductive amp clamp and tilt-back cart
- Made in USA of U.S. and global components



MODEL 7136R – Heavy-Duty Battery Load Tester

Professional carbon pile tester for 6/8/12-volt batteries, designed for fast, accurate diagnostics in fleet and commercial shops. Adjustable load up to 1000 amps with digital voltage and amperage readouts.

Key Features

- Tests 6V / 8V / 12V automotive & heavy-duty batteries
- Supports 6V deep cycle (0–254 Ah)
- Up to 1000A manual load control
- Tests batteries up to 2000 CCA
- Built-in LCD voltmeter & amperage meter
- Fan-cooled for continuous testing
- Durable high-resolution carbon pile
- RoHS & CE compliant

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MULTI-BATTERY SERIES CHARGERS

Powerful. Intelligent. Efficient.



6068

Model 6068 Powerful Performance Parallel Battery Charger

- 110 Amp Output at 15.5 Volts
- Charges 1-36, 12-volt batteries in less than 24 hours in parallel
- Designed for 190 – 262VAC 50/60Hz electrical environments
- Includes a pigtail rectifier with a deep reserve capacity
- Digital Control shows testing efficiency results
- Additional accessories available
- Made in USA of US and Global Components



6066A

Model 6066A Intellamatic® 12 Volt Automatic Parallel Battery Charger

- Charges 1-20 12 Volt batteries in parallel in less than 24 hours
- Automatic with 3 settings: Flooded, AGM, Manual
- Two output setting 60A and 30A
- Three LED indicators showing charging status.
- Analog voltage and current meters
- Made in USA of US and Global Components

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MULTI-BATTERY CHARGING ACCESSORIES

Increase Capacity. Save Time. Smart.



6075S

Model 6075S 10 Clamp Set "Smart" Bus Bar

- Bus Bar set for parallel charging up to 10 batteries
- Use one or combine additional bars for added capacity
- Insulated fiberglass backboard with 10 pairs DC charging 300 Amp insulated safety clamps with 72" long 10 GA
- Microprocessor controller protects and monitors each circuit.
- Status LED for each Circuit
- Can be mounted on a wall or bench (Bus Bar = 30"L)
- Made in USA of US and Global Components



6075

Model 6075 10 Clamp Set Bus Bar

- Use one or combine additional bars for added capacity.
- Insulated fiberglass backboard with 10 pairs DC charging 300 Amp insulated safety clamps with 72" long 10 GA cable.
- Can be mounted on a wall or bench (Bus Bar = 30"L)
- Made in USA of US and Global Components

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ATEC®

SMART CHARGERS & MAINTAINERS

Automatic Protection. Intelligent Maintenance.
Dependable Performance.

9002A



Model 9002A 1.5 Amp 12 Volt Maintainer/Charger

- Automatically powers on when charging is required
- Float mode maintains battery at full charge

- LED indicator shows charging status
- Reverse polarity & short-circuit protection
- Designed for mounting near the battery
- Safe for SLA, AGM, EFB & Gel batteries

9003A



Model 9003A 1 Amp 6/12 Volt Maintainer/Charger

- Automatic switching mode charger & maintainer
- Charge and maintain with float mode operation
- Short circuit, overload & reverse battery protection
- Internal overheat protection
- Includes quick-connect lead with clips and ring terminals
- Selectable 6V or 12V output
- For 2Ah–20Ah lead-acid batteries (SLA, AGM, EFB & Gel)

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INTELLAMATIC® BENCH CHARGERS

POWERFUL & INTELLIGENT

- Safe for Sealed Lead Acid, AGM, and Gel Cell batteries
- Polarity-Protected & Indicated
- Built-in Reflash Power Supply Mode
- Built-in PATENTED Diagnostic to Detect Weak or Defective Batteries
- Overcharge Protection
- ONE-Year bumper-to-bumper warranty



9425

9425 12 Volt Smart Charger/Analyzer

12 VOLT
20 AMP

AUTOMATIC BATTERY
CHARGING & RECONDITIONING

9640 12 Volt Smart Charger/Analyzer

12 VOLT
40 AMP

130 AMP
12 VOLT ENGINE START



9640

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INTELLAMATIC® & MULTI-BATTERY CHARGING SOLUTIONS

Designed for fleets, battery service operations, and high-volume charging environments, ASSOCIATED® multi-battery chargers deliver reliable, efficient charging for multiple batteries simultaneously. With rugged construction, advanced diagnostics, and flexible configurations, these chargers maximize productivity while protecting battery health.

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INTELLAMATIC® MULTI-BATTERY CHARGERS



MODEL 6366

Intellamatic® 12 Volt 4-Channel x 20 Amp Multi-Battery Charger
Charge up to four batteries independently with fully automatic, microprocessor-controlled precision.

Features & Benefits

- Four independent charging channels, up to 20 Amps each
- Fully automatic voltage and current regulation per battery
- Individual LED indicators show charging status by channel
- Patented diagnostics identify weak or defective batteries
- Battery type selector: Flooded, AGM, GEL
- Dead battery override control
- Includes four detachable 6 ft leads with 300 Amp clamps
- Made in USA of U.S. and global components

MODEL 6066A

Intellamatic® 12 Volt Automatic Parallel Battery Charger

Efficiently charge large battery groups with intelligent automatic control and high output capacity.

Features & Benefits

- Charges 1–20 batteries in parallel in less than 24 hours
- Selectable automatic charging modes: Flooded, AGM, Manual
- Two output settings: 60 Amp and 30 Amp
- LED indicators show charging status
- Analog voltage and current meters
- Made in USA of U.S. and global components

ASSOCIATED® MULTI-BATTERY SERIES CHARGERS

ENGINEERED FOR DURABILITY AND FLEXIBLE INSTALLATION IN PROFESSIONAL CHARGING ENVIRONMENTS.

Series Features

- Charges all 12 Volt battery types
- Circuit breaker protection for enhanced safety
- Isolated transformer design
- Wall, stand, or bench mount capable
- Made in USA of U.S. and global components



6065

MODEL 6065

Parallel Battery Charger

- 30 Amp output at 14.9 Volts
- Charges 1–10 batteries in parallel in less than 24 hours
- 16 charge rate settings for precise control
- Analog meter displays charging efficiency
- Spanish instruction version available (Model 6065S)

MODEL 6068

High-Capacity Parallel Battery Charger

- 110 Amp output at 15.5 Volts
- Charges 1–36 batteries in parallel in less than 24 hours
- Designed for 190–262VAC, 50/60Hz environments
- Digital control display
- Includes high-capacity pigtail rectifier
- Accessory expansion capable



6068

MODEL 6078

Parallel Battery Charger – International Voltage

- 30 Amp output at 14.9 Volts
- Charges 1–10 batteries in parallel in less than 24 hours
- Designed for 220VAC, 50/60Hz environments

- Patented multi-diode rectifier
- Accessory expansion capable



6078

MULTI-BATTERY CHARGING ACCESSORIES

EXPAND CHARGING CAPACITY AND ORGANIZE HIGH-VOLUME BATTERY OPERATIONS EFFICIENTLY.



6075

MODEL 6075

10 Clamp Set Bus Bar

- Parallel charging bus bar for up to 10 batteries
- Expandable by combining multiple bus bars
- Fiberglass insulated backboard
- Includes 10 pairs of 300 Amp clamps with 72" cables
- Wall or bench mountable



6075S

MODEL 6075CB

10 Clamp Set Circuit Breaker Bus Bar

- Circuit breaker protection for each circuit
- Individual status LED indicators
- Parallel charging for up to 10 batteries
- Expandable system capability
- Wall or bench mountable



6075CB

MODEL 6075S

SMART Bus Bar with Microprocessor Protection

- Microprocessor monitoring and circuit protection
- LED status indicator per circuit
- Parallel charging for up to 10 batteries
- Expandable system capability
- Wall or bench mountable



6086

MODEL 6086

Battery Charging Rack with 10 Clamp Sets

- Stores up to 15 batteries
- Heavy-gauge steel rack with acid-resistant shelves
- Includes 10 pairs of 300 Amp clamps with 72" cables
- Stand-alone design: 48"L x 48"H x 12"W

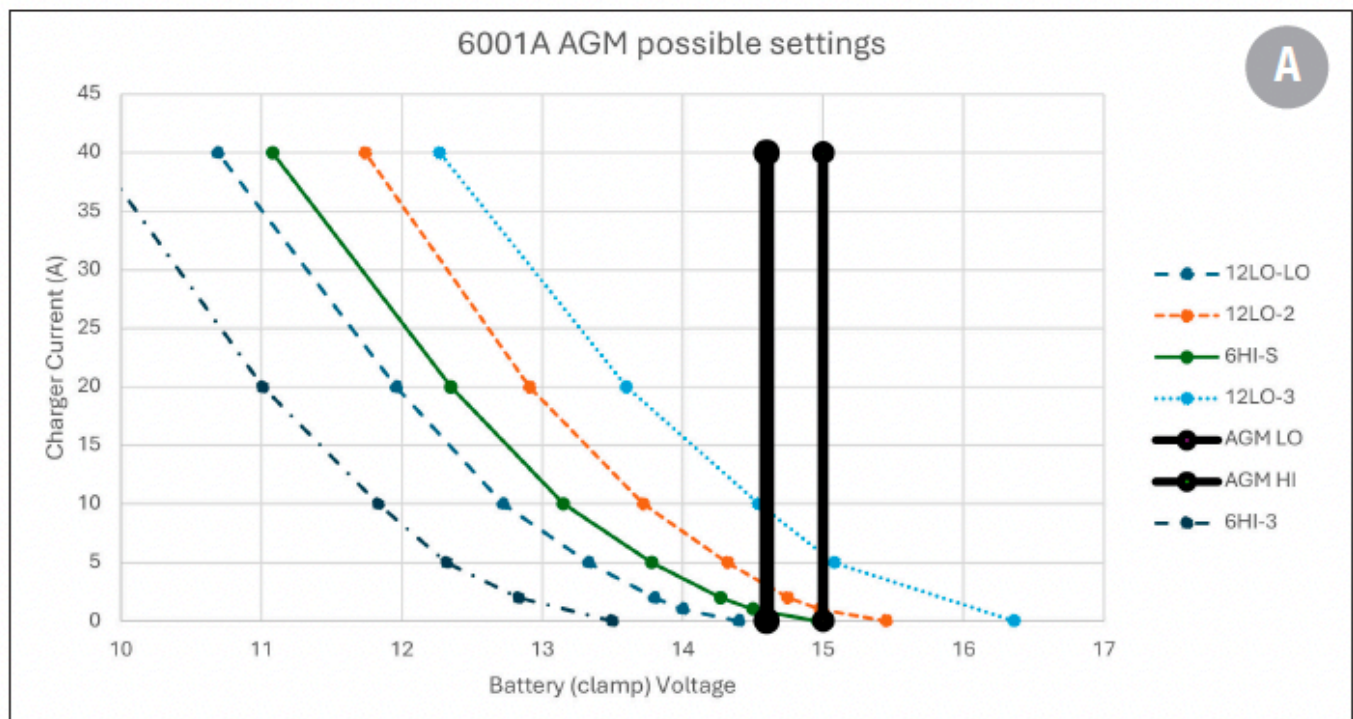
CAN I CHARGE AN AGM BATTERY WITH A MANUAL CHARGER?

You can charge an AGM Battery with a manual charger with a caveat. In most cases the user will have to monitor the battery voltage while it is on charge. The amount of monitoring required will depend on the charger. One item to be aware of is the number of charge settings the charger has, the larger the number the more likely monitoring will be a minimum.

Let's look at an Associated Equipment 6001A charger as an example. Chart A (below) indicates

the output ratings on the 6001A charger that would be useful for charging an AGM battery with little monitoring.

From this chart we can see if we charge on the 6HI-3 setting almost no monitoring would be required since the max voltage is just a little above the float voltage for an AGM battery (13.6V). The trade off is that it can take a long time to fully charge a battery. Placed the 6001A on a moderate AGM battery that we fully discharged with the RC rating (25A).



If we want to fully charge the battery you need to return 103% of what was taken out. In chart B, it took 19:21 to return that amount if we only returned 100% it took 14:51, for 80% the time is 7:51, and for 65% the amount needed to test the battery or start a car the time would be 5:16. Point: to finish a battery to return the last 23% takes the bulk of the charge time in this case 11:31 out of 19:21, or takes 59.5% of the time to return the last 23%.

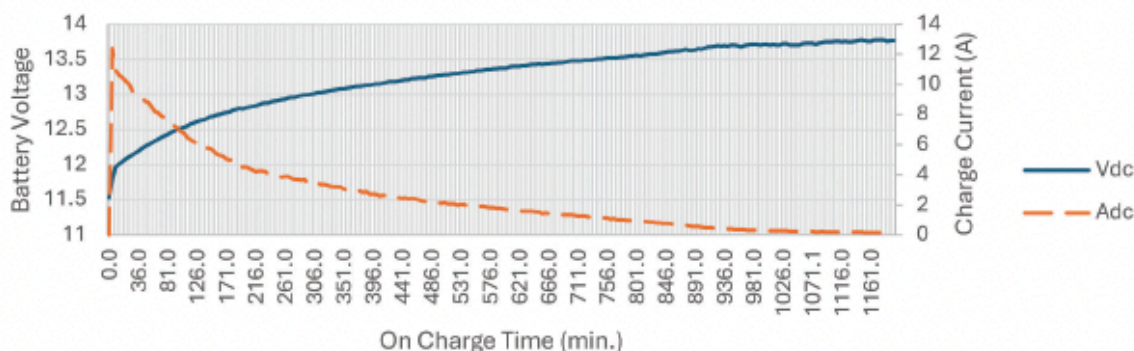
If we would like to charge faster, and can at least lightly monitor the battery, chart C shows the 6HI-S

setting would be a good choice since the maximum voltage on this setting is right around the maximum voltage for an AGM battery (15.0V, the ideal charge voltage might be a little lower). If we use the same battery but this time set the 6001A to the 6HI-S setting this is what we see.

Following the same logic, it took 5:57 to return 103% (Battery Voltage of 15.07V), for 100% returned (Battery Voltage of 14.92V) it took 4:37, for 80% (Battery Voltage of 13.70V) it took 2:15, and for 65% (Battery Voltage of 13.35V) it takes 1:15.

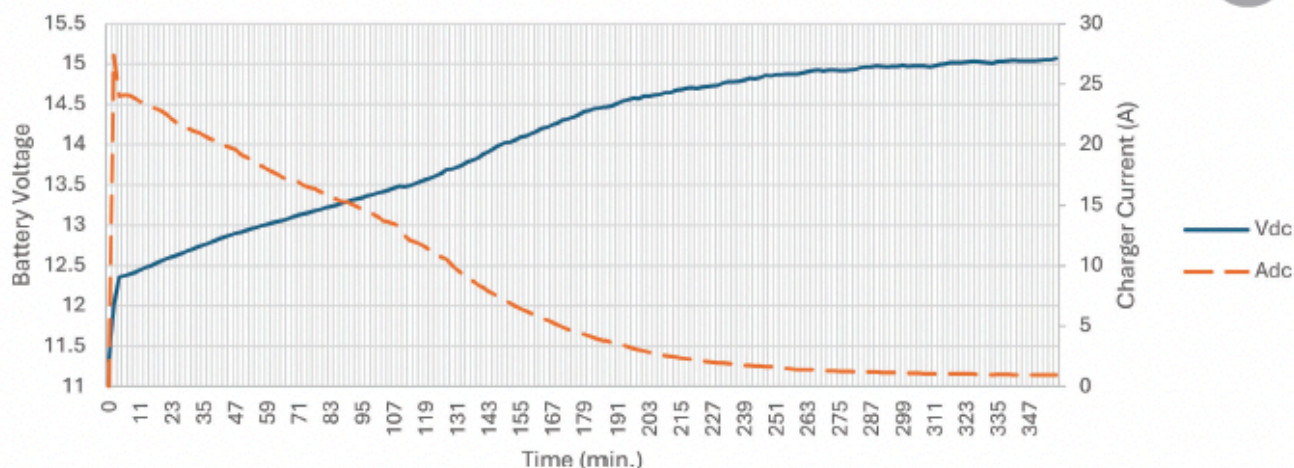
6001A 6HI-3 AGM Battery (VAC 122.4 - 124.8) Returned 103% (50.2AH) of what was taken out

B



6001A 6HI-S AGM-Battery (Vac- 123.8 - 125) Returned 103% of battery rating (47AH)

C





RUGGED, INTELLIGENT CHARGING SOLUTIONS

Analyze and Charge With a Single Unit

- Safe for Sealed Lead Acid, Enhanced Flooded, AGM, and Gel Cell batteries
- Electrical Stability System (ESS™) Technology provides a Stable Power Supply for Extended Service Procedures or Re-flashes.
- Nominal 13.7V DC Output
- Dead Battery Override feature
- "Safe in any weather" operation

ESS6008 Intellamatic® Wheel Charger With Reflash Power Mode

12 VOLT 60 AMP	270 AMP BOOST 12 VOLT ENGINE START
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ESS6011 Intellamatic® Wheel Charger With Reflash Power Mode

12 VOLT 60 AMP	24 VOLT 35 AMP	280 AMP BOOST
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ESS6011



ESS6008

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KNOW YOUR POWER:

THE STATE OF THE AUTOMOTIVE BATTERY INDUSTRY

Batteries are one of the most utilized global consumer commodities, helping to power everyday essentials that include everything from personal devices and household appliances to equipment being used in the latest space exploration missions. In fact, last year alone, batteries accounted for an estimated \$134B in global sales and is expected to grow at a compound annual growth rate (CAGR) of 16.4% from 2025 to 2030.

One of the largest business sectors that relies on battery performance and productivity is the automotive industry. By 2028, the light, medium and heavy-duty automotive aftermarket is expected to be a \$664.3 billion industry and a pivotal component within the aftermarket sector that will help contribute to this sales forecast is the battery.

While these statistics certainly seem indicative of a sprawling industry that shows no signs of slowing down in popularity any time soon, these numbers only begin to scratch the surface on the current and future state of the battery industry and its influence on the transportation sector.

When it comes to exploring the various facets of the battery market landscape and its impact on consumers and the overall economy, did you know...

1 OUT OF EVERY 4 U.S. JOBS ARE RELATED TO OR RELIANT ON BATTERIES.

Not only do batteries help to power everyday essentials, including the vehicles that help transport us from point A to point B, but they are helping American workers earn a livelihood. For professionals that are tied to the supply chain industry, from “direct to your doorstep” delivery drivers to commercial fleets that transport consumer goods across the country, the dependability of the batteries used to power these heavy-duty vehicles is paramount to business operations.

THE AVERAGE AGE OF LIGHT VEHICLES IS 12.6 YEARS.

This trend, observed in 2024 and projected to continue, signals that Americans are holding onto their cars and trucks for longer periods than ever before. Contributing factors include higher prices for new vehicles, coupled with increased interest rates that make financing more costly. Furthermore,



vehicles are generally built to be more durable and reliable than in previous decades, allowing them to remain operational longer. To help keep up with this trend, manufacturers are engineering their batteries to last longer to provide vehicle owners with a lower Total Cost of Ownership (TCO).

THE REPLACEMENT RATES FOR BATTERIES IN VEHICLES BETWEEN THE AGE OF 11-15 YEARS IS APPROXIMATELY 37%.

While the longevity of light vehicles is increasing due to factors noted above, the normal lifespan of an automotive battery that's properly maintained is between 3-5 years. Therefore, it's not surprising that the replacement rates for batteries in vehicles 11 years or older is almost 40%. Accumulated wear and tear over more than a decade of use, exposure to fluctuating temperatures, and the electrical demands of the vehicle contribute to the eventual end of life of batteries — regardless of the chemistry. This replacement statistic underscores a consistent demand for batteries within the automotive aftermarket and is an important reminder to regularly check in on the health of your battery to achieve the best performance outcome for your vehicle.

THE RATE OF U.S. ENERGY CONSUMPTION IS PROJECTED TO INCREASE 27% BY 2050.

While this speaks to broader power consumption overall — which is influenced by many factors — one of the industries that will play a pivotal role in that growth percentage is the automotive battery industry.

IN 2024, THE GLOBAL AUTOMOTIVE BATTERY MARKET SIZE WAS VALUED AT \$52.44B AND IS PROJECTED TO GROW TO \$82.90B BY 2032.

That's a 58% increase in less than a 10-year span. Those are compelling numbers and could have a lot to do with the fact that the chemistries behind the latest battery innovations have evolved to provide ample cranking power and exceptional cycle life for an overall lower TCO. All attractive features that can help grow sales within the market landscape and continue to attract interest among consumers for years to come.

ACCORDING TO 2024 EXPERIAN VEHICLES IN OPERATION (VIO) DATA, THE TOP 3 BATTERY DIN SIZES (G47/H5/LN2, G48/H6/LN3 AND G94R/H7/LN4) ARE SET TO COVER MORE THAN 40% OF ALL VEHICLES IN OPERATION IN NORTH AMERICA IN 2025.

The term "DIN" stands for "Deutsches Institut für Normung", which is German for "German Institute for Standardization". What began as a slow adoption has grown into what EnerSys calls "The DIN Tsunami",

with 80% of the last three Internal Combustion Engine (ICE) model year vehicles now using DIN battery sizes.

The consolidation of battery fitments signals a significant trend towards standardization in the automotive aftermarket. This concentration of key battery sizes streamlines manufacturing processes, simplifies inventory management for distributors and retailers, and potentially makes battery replacement easier and more straightforward for a large segment of consumers and automotive service professionals.

IN 2025, THE ABSORBED GLASS MAT (AGM) BATTERY MARKET IS PROJECTED TO BE VALUED AT \$13B AND IS EXPECTED TO GROW TO \$23B BY 2035.

The Absorbed Glass Mat (AGM) battery market is poised for significant expansion in the coming decade. This robust growth trajectory highlights the increasing demand and adoption of AGM. A significant contributor will be rising sales of electric vehicles (EVs), which use AGM batteries for their 12-volt systems to power accessories and other non-driving functions. AGM batteries are also used in hybrid-electric vehicles.

BY 2027, UP TO 19% OF ALL REPLACEMENT AUTOMOTIVE BATTERIES ARE PREDICTED TO BE AGM — NEARLY 3X THAT OF 2022.

This growing market share, reported in the 2024 S&P Global Powertrain Forecast, reflects the increasing adoption of AGM technology, driven by its suitability for modern vehicles with higher electrical demands, such as those featuring start-stop systems and advanced driver-assistance features. AGM batteries, such as ODYSSEY® batteries from EnerSys, offer several advantages over traditional flooded lead acid batteries, including longer life, better cycling performance, faster recharging, enhanced vibration resistance, and a maintenance-free, spill-proof design.

Backed by an industry-leading warranty, ODYSSEY® batteries are engineered to deliver 2X the power and 3X the life of conventional flooded lead acid batteries. Manufactured with AGM Thin Plate Pure Lead (TPPL) technology — or AGM2 — the latest in AGM power, ODYSSEY® batteries are maintenance-free, extreme temperature tolerant and provide ample cranking, even at a low Depth of Discharge (DOD). All the common DIN size batteries are available within the ODYSSEY® battery product line, along with a wide range of Group sizes, with the ability to service 90% of the market as direct fit.

 **ASSOCIATED**

ATEC®

SMART CHARGERS & MAINTAINERS

Reliable, automatic battery care designed to keep today's lead-acid batteries fully charged, protected, and ready for use.



Model 9002A – Automatic Vehicle Maintainer
Perfect for vehicles in storage or service departments. Hard-wire installation keeps batteries fully charged without overcharging.



Model 9003A – Compact Multi-Voltage Maintainer

Flexible 6V/12V charging with two lead sets makes it ideal for motorcycles, lawn equipment, and classic vehicles.

Model 9004A – Advanced Smart Charger & Battery Rejuvenator

Microprocessor-controlled charging with recovery mode helps restore weak batteries and maintain them during long storage periods.

Contact Us:

✉ sales@hl-ltd.com

☎ +1-973-325-3838

www.hockman-lewisltd.com



ATEC® Smart Chargers and Maintainers provide safe, automatic charging for batteries used in vehicles, seasonal equipment, power sports, and shop environments. Advanced charging technology prevents overcharging while maintaining optimal battery health during long storage periods.

Designed for modern battery types including SLA, AGM, EFB, and Gel, these compact chargers deliver dependable performance with built-in safety protections and intelligent charging control.

Whether maintaining stored vehicles or supporting service departments, ATEC® chargers help extend battery life, prevent dead-battery comebacks, and ensure reliable starting power.

ATEC® SMART CHARGER & MAINTAINER COMPARISON

Feature	9002A	9003A	9004A
Voltage	12 Volt	6 / 12 Volt	12 Volt
Charging Output	1.5 Amp	1 Amp	1.5 Amp
Charger Type	Automatic Maintainer	Automatic Charger/Maintainer	Smart Charger/Maintainer/Rejuvenator
Charging Technology	Automatic float maintenance	Automatic switching with float mode	Microprocessor-controlled multi-stage charging
Battery Recovery Mode	—	—	✓ Rejuvenation Mode
Long-Term Maintenance	✓	✓	✓ Pulse Maintenance
Battery Compatibility	SLA, AGM, EFB, Gel	SLA, AGM, EFB, Gel	SLA, AGM, EFB, Gel
Safety Protections	Reverse polarity, overcharge	Reverse polarity, short	Reverse polarity, short circuit circuit, overload
Charging Status Indicator	LED indicator	LED indicator	Multi-stage charging indicators
Connection Type	Hard-wire install	Clip & ring terminal leads	Quick-disconnect leads
Mounting Options	Under-hood mounting	Portable	Hanging hook / wall mount
Ideal Applications	Stored vehicles, fleet vehicles, service departments	Motorcycles, small batteries, seasonal equipment	Advanced battery care, battery recovery, long-term storage
Warranty	1 Year	1 Year	1 Year

ATEC® Smart Charging Technology

- Automatic multi-stage charging
- Maintains batteries without overcharging
- Protects against reverse polarity and short circuits
- Safe for SLA, AGM, EFB & Gel batteries
- Ideal for storage, seasonal vehicles, and service departments

YOUR BEST SOLUTION

9003A	9002A	9004A
Compact dual-voltage maintainer	Under-hood automatic maintainer	Advanced smart charger with battery recovery

MAXIMIZING FLEET UPTIME THROUGH SMARTER BATTERY SERVICE TOOLS

By Kimberly Cottle, President and CEO, Associated Equipment Corporation

In today's demanding fleet operations environment, minimizing downtime while maximizing vehicle reliability is a critical priority. Whether managing delivery trucks, municipal vehicles, or construction equipment, every hour a vehicle sits idle represents lost productivity and added cost. That's why selecting the right battery and electrical system service tools is not just a maintenance decision—it's a strategic investment. Pairing proper battery service tools with preventative maintenance procedures provides the maximum ROI and maximum up time for best-in-class fleet operations.

BUILDING THE ROI CASE FOR SMARTER FLEET TOOLS

Fleet Service Managers need to make data-driven decisions that deliver measurable returns. At the core of this strategy are versatile and efficient tools that streamline diagnostics, reduce service times, and keep vehicles operational.

Products like the **Associated Equipment ESS6008 12V Charger/Analyzer/Power Supply** and **ESS6011 Intellamatic® 12/24V Charger/Analyzer/Power Supply** provide technicians with rapid diagnostic capabilities, allowing them to determine if a battery will take a charge before wasting valuable time attempting to recharge a dead unit. These tools also support on-vehicle charging of battery packs, eliminating the need to remove them from the vehicle, and double as reliable power supplies for extended service procedures.

The new **IBC6008 Intelligent Battery Charger with Adjustable Reflash Power Mode** represents the next step in this evolution—offering advanced digital control, safety features optimized for AGM and lithium SLI batteries, and efficient charge



cycles that reduce service times even further. Associated also offers longer DC cable options for fleets performing simultaneous maintenance “on-lift” procedures, needing a longer reach.

Meanwhile, heavy-duty diagnostic equipment like the **Associated 7136R Carbon Pile Load Tester** and **6036B-24 Heavy Duty Variable Carbon Pile Load Tester** provide technicians with the “gold standard” in testing accuracy. These tools simulate true load conditions for precise battery health assessments—critical for making confident decisions about replacements and warranty claims. **The 6044HD 12V Automatic and 12/24V Electrical System Analyzer** was designed for heavy duty cycle 24/7 fleet use including heavy duty cables and fan-cooling for subsequent tests. Associated also offers the US Made Heavy Duty **6038C Shop Cart** for use with all bench testers.

The ROI for these integrated technologies comes from reduced diagnostic time, faster service turnover, and the ability to consolidate multiple functions into fewer, more powerful tools—improving workflow and freeing up valuable floor space.

MEASURING ROI AND DATA-DRIVEN EFFICIENCY

Understanding key service metrics helps fleet managers quantify returns. Battery warranty data, service time per vehicle, and the number of hours spent on batteries that ultimately fail to charge are all important benchmarks.

AGM batteries, in particular, require precise charging profiles to prevent premature failure. Using chargers not designed for AGM chemistry can cause rapid electrolyte depletion, damage, or even total battery loss. By investing in safe, advanced chargers like the **IBC6008** or **ESS6008**, fleets can significantly extend battery life, reduce warranty claims, and improve overall reliability. Utilizing a combination of Associated chargers and testers and proper procedures, fleets have seen as much as an 80% recovery of previously determined in warranty battery failures resulting in huge cost savings.

For most operations, the ROI timeline ranges between **six to twelve months**, depending on fleet size and battery mix.

BUDGETING FOR CONTINUOUS INNOVATION

Battery technology continues to evolve. While lead-acid batteries have been around for more than a century, modern fleets are transitioning toward **AGM, Enhanced Flooded, and Lithium SLI** batteries, each with unique maintenance requirements. In 2025, analysts estimate that 50+ million vehicles will need AGM battery replacements.

Fleet managers should plan to **update or add the right diagnostic and charging tools every 18 to 36 months**, with budgets typically ranging from **\$750 to \$2,000** per tool. The frequency of upgrades depends largely on the pace of battery innovation and vehicle electrification within the fleet.

PURCHASING AND DISTRIBUTION CHANNELS

Professional-grade battery and electrical system tools are most often purchased through established **distribution channels**, though some national fleets also buy **direct**—especially when a product has been co-developed with a battery or vehicle manufacturer. Associated Equipment works closely with both distribution partners and direct national accounts to ensure fleets have access to the right tools, support, and training resources.

MAXIMIZING ROI THROUGH TECHNICIAN TRAINING

Even the best tools require proper use. Technician education should focus on understanding battery types, safe charging requirements, and tool maintenance. Fortunately, most Associated tools are designed for intuitive use, requiring minimal training for everyday operation.

THE BOTTOM LINE: SMARTER TOOLS, STRONGER FLEETS

A well-equipped service bay is the foundation of a productive fleet. To optimize efficiency, **one wheeled charger should be budgeted for every two service bays**. Supporting accessories like **multi-battery AGM chargers Model 6366 and 6066A**, **memory savers**, and **deep-cycle recovery systems** help maximize both shop productivity and battery longevity.

When combined with reliable equipment built for durability and precision, these practices directly enhance fleet profitability—keeping vehicles on the road, technicians efficient, and operations running smoothly.



PORTABLE POWER



FEATURES:

- Professional Grade
- Heavy Duty Insulated Clamps
- Polarity Indicated
- Heavy-duty sealed 22Ah AGM battery that is replaceable
- Lite Diagnostics to detect cranking/charging system issues

ASSOCIATED® Model KS400

Professional Heavy Duty Industrial Jump Starter with 3' DC Leads

Compact and easy to use, the KS400 provides dependable battery charging and engine starting support for everyday shop needs. Built with durable construction and straightforward controls, it delivers reliable performance for charging, boosting, and maintaining 6V and 12V batteries in professional service environments.



KS401

ASSOCIATED® Model KS401

Professional Heavy Duty Industrial Jump Starter with 7' DC Leads Longest Portable Power Leads in the Industry

The KS401 combines portable convenience with professional-grade charging power for automotive and light truck applications. Designed for dependable daily use, it supports fast charging, engine starting assistance, and safe operation across multiple battery types with rugged construction built to handle shop conditions.

- Heavy duty high impact-resistant case with rubber base
- Replaceable cables/field serviceable design
- Excellent for job sites, professionals, heavy duty field use
- EXCLUSIVE Heavy-Duty 22Ah Sealed AGM Battery
- Instantly jump-starts WITHOUT another vehicle
- Plastisol coated steel clamps with 300A copper jaw
- 12V 600mA internal charger
- Digital LED display with state of charge readings
- Built in digital voltmeter
- 12V power port and 5V USB power port
- 12V male to male DC Cord included
- Made in USA of US and Global Components



6256

611402 KS400 Replacement 3' DC cables (includes positive and negative cable)

611403 KS401 Replacement 7' DC cables (includes positive and negative cable)

611413 KS400/KS401 Replacement 6' DC-DC cigar plug adapter

625504 KS400/KS401 Replacement Battery

ATEC® PORTABLE POWER

ATEC® Model 6256

The ATEC 6256 delivers high-output charging and starting performance for demanding professional service work. Engineered for durability and consistent power delivery, it supports heavy-duty charging applications while maintaining the reliability technicians expect in busy automotive, fleet, and industrial environments.

- KwikStart™ 12 Volt Portable Power and Jump Starter
- CCA: 360A Peak Current: 1700A
- Rated Input Voltage: 120VAC, 60Hz
- Rated Output Voltage: 12VDC
- Battery Status Indicator, Two 12V Vehicle Adaptors, One 5V DC USB Port & LED Work Light
- DC leads - 36" 500A 4GA
- 22Ah AGM battery
- Imported



6296

ATEC® Model 6296

Built for high-demand charging and engine starting applications, the ATEC 6296 provides powerful performance with rugged shop-ready durability. Designed for professional technicians, it delivers dependable charging capability, strong starting assist, and long-lasting construction for daily use in automotive and commercial service operations.

- CCA: 720A Peak Current 3400A
- Rated Input Voltage: 120 VAC, 60Hz
- Rated Output Voltage: 12/24VDC
- Battery Status Indicator, Two 12V Vehicle Adaptors, LED Work Light
- Overcharge Protection & Overload Protector: 15A internal self-recovery
- Reverse Polarity Alarm with on/off Switch
- Heavy duty DC leads - 44" 500A 2GA
- Two 22Ah AGM batteries
- Imported



MSK6211

ATEC® Model MSK6211 – ATEC® BOOSTER PACK KIT

- INCLUDES 6256 KwikStart with Memory Saver Cable (MS6209)

PRODUCT SPECIFICATIONS

WHEELED BATTERY CHARGERS

Part Number	Continuous Amperage Charging Rate	Re-Flash Power Supply Output Amperage	Crank Assist	Operating Charging Voltage	Battery Types	Indoor / Outdoor Rated	Smart Charge / Battery Diagnostics	Adjustable Charging Voltage	Adjustable Charging Amperage	Adjustable Re-Flash Power Supply Voltage	Polarity Indicated and/or Protected	Memory Saver Mode	DC Cable Length and Gauge	Clamp Rating	A/C Cord Length	Weight (Pounds) (Lbs)	Dimensions (LxWxH)	Warranty Code	COO	Page Number
6001A	100/75A	N/A	375A	6/12V	4	Y	N	N	N	N	Y	N	8' 4AWG	500A	10' 14-3	58	17.25x16.5x30"	1	US9	8
6002B	100/80A	N/A	400A	6/12/18/24V	4	Y	N	N	N	N	Y	N	8' 4AWG	500A	10' 14-3	70	17.25x16.5x30"	1	US9	8
6006AGM	70/65/30A	N/A	280A	6/12/24V	5	Y	N	N	N	N	N	N	7' 4AWG	500A	6-1/2' 16-3	53	17.25x16.5x26.5"	1	US9	9
6009AGM	70/60/2A	N/A	265A	6/12V	5	Y	N	N	N	N	Y	N	7' 4AWG	500A	6-1/2' 16-3	48	17.25x16.5x26.5"	1	US9	9
6012AGM	70/680A	N/A	250A	6/12V	5	Y	N	N	N	N	N	N	6 1/2' 6 1/2AWG	400A	6-1/2' 16-3	48	17.25x16.5x26.5"	1	US9	9
6023	60/50/25A	N/A	300A	6/12/24V	4	Y	N	N	N	N	N	N	8' 4AWG	400A	8' 230VAC	50	15.5x19x21.5"	10	US9	36
6027B	90/75/55A	N/A	500A	6/12/24V	4	Y	N	N	N	N	Y	N	8' 4AWG	500A	8' 230VAC	75	15.5x19x21.5"	10	US9	36
6508A/6508X	60A	70A	270A	12V	6	Y	Y	N	N	N	Y	N	6 1/2' 16-3AWG	300A	6' 18-3 220V	49	17.25x16.5x26.5"	10	US9	37
6512/6512G	100/80/30A	N/A	500A	6/12/24V	4	Y	N	N	N	N	N	N	6' 7" 4AWG	400A	8' 230VAC	49	15.5x19x21.5"	10	US9	36
ESS6007B	40A	45A	130A	12V	6	Y	Y	N	N	N	Y	N	6 1/2' 6 1/2AWG	400A	6' 18-3	47	17.25x16.5x26.5"	2	US9	4
ESS6008	60A	70A	270A	12V	6	Y	Y	N	N	N	Y	N	6 1/2' 4AWG	400A	6' 16-3	47	17.25x16.5x26.5"	2	US9	4
ESS6008MSK	60A	70A	270A	12V	6	Y	Y	N	N	N	Y	Y	6 1/2' 4AWG	400A	6' 16-3	47	17.25x16.5x26.5"	2	US9	4
ESS6011	70/35A	70A	270A	12/24V	6	Y	Y	N	N	N	Y	N	6 1/2' 4AWG	500A	6' 16-3	49	17.25x16.5x26.5"		US9	5
MIL6011	70/35A	70A	270A	12/24V	6	Y	Y	N	N	N	Y	N	6 1/2' 4AWG NATO 13' 4AWG	500A	6' 16-3	49	17.25x16.5x26.5"	2	US9	5
IBC6008	60A	70A	270A	12V	7	Y	Y	Y	Y	Y	Y	N	6 1/2' 4AWG	400A	6' 16-3	47	17.25x16.5x26.5"	2	US9	3
IBC6008MSK	60A	70A	270A	12V	7	Y	Y	Y	Y	Y	Y	Y	6 1/2' 4AWG	400A	6' 16-3	48	17.25x16.5x26.5"	2	US9	3
US20	40/40/10A	N/A	200A	6/12V	4	Y	Y	N	N	N	N	N	6 1/2' 6 1/2AWG	400A	6' 16-3	35	13.5x15x24"	8	US9	10

1 Two Year Bumper to Bumper and 5 Year on Transformer and Rectifier
 2 Two Year Bumper to Bumper and 3 Year on Transformer and Rectifier
 3 One Year Bumper to Bumper

4 SLA
 5 SLA, AGM
 6 SLA, AGM, Gel-Cell

7 SLA, AGM, EFB, Lithium-Ion, Gel-Cell
 8 Two Year Bumper to Bumper
 9 Made in the USA with US and Globally Sourced Parts.

10 Please call for warranty information.

BENCH TOP BATTERY CHARGERS

Part Number	Continuous Amperage Charging Rate	Re-Flash Power Supply Output Amperage	Crank Assist	Operating Charging Voltage	Battery Types	Indoor / Outdoor Rated	Smart Charge / Battery Diagnostics	Adjustable Charging Voltage	Adjustable Charging Amperage	Adjustable Re-Flash Power Supply Voltage	Polarity Indicated and/or Protected	Memory Saver Mode	DC Cable Length and Gauge	Clamp Rating	A/C Cord Length	Weight (Pounds) (Lbs)	Dimensions (LxWxH)	Warranty Code	COO	Page Number
6010B	60/60/30A	N/A	230A	6/12/24V	4	N/A	N	N	N	N	Y	N	7' 4AWG	500A	6-1/2' 16-3	38	17x16x17"	1	US9	10
9002A	1.5A	N/A	N/A	12V	6	N/A	N	N	N	N	Y	N	15" 18AWG	50A	8' 18-2	1	8.5x7x1.5"	3	CN	16
9003A	1A	N/A	N/A	6/12V	6	N/A	N	N	N	N	Y	N	12" 18AWG	50A	10' 18-2	1	11.5x7x3"	3	CN	16
9004A	1.5A	N/A	N/A	12V	6	N/A	N	N	N	N	Y	N	4' 18-2AWG	50A	6' 18-3	1	10.5x8.5x3"	3	CN	16
9425	20A	20A	N/A	12V	6	N/A	Y	N	N	N	Y	N	6 1/2' 10AWG	300A	6' 18-3	21	14x11.5x11.5"	3	US9	7
9525A/9525X	20A	20A	N/A	12V	6	N/A	Y	N	N	N	Y	N	6 1/2' 10AWG	300A	6' 18-3 240A	21	14x11.5x11.5"	10	US9	37
9640	40A	45A	N/A	12V	6	N/A	Y	N	N	N	Y	N	6 1/2' 6 1/2AWG	400A	6' 18-3	38	17x16x17"	3	US9	7
3055A	10/2A	N/A	50A	6/12V	6	N/A	N	N	N	N	Y	N	6 1/2' 6 1/2AWG	75A	6' 16-3	14	10.5x10x5.5"	3	CN	15
3075A	12/2A	N/A	75A	6/12V	6	N/A	N	N	N	N	Y	N	6 1/2' 6 1/2AWG	75A	6' 16-3	15	10.5x10x5.5"	3	CN	15
3100A	15/2A	N/A	100A	6/12V	6	N/A	N	N	N	N	Y	N	6 1/2' 6 1/2AWG	75A	6' 16-3	18	10.5x10x5.5"	3	CN	15

1 Two Year Bumper to Bumper and 5 Year on Transformer and Rectifier
 2 Two Year Bumper to Bumper and 3 Year on Transformer and Rectifier
 3 One Year Bumper to Bumper

4 SLA
 5 SLA, AGM
 6 SLA, AGM, Gel-Cell

7 SLA, AGM, EFB, Lithium-Ion, Gel-Cell
 8 Two Year Bumper to Bumper
 9 Made in the USA with US and Globally Sourced Parts.

10 Please call for warranty information.

MULTI-BATTERY CHARGERS

Part Number	D.C. Output	A.C. Input	Charging Capacity	Battery Types	Parallel / Series / Individual Charger	Smart Charge / Battery Diagnostics	Charge Rate Settings	Volt Meter	Amp Meter	DC Cable Length and Gauge	Clamp Rating	A/C Cord Length	Weight (Pounds) (Lbs)	Dimensions (LxWxH)	Warranty Code	COO	Page Number
6065/6065S	30A, 14.9V	108-132V, 7.5A 60Hz	Up to 10 12V	7	P	N	16	11-17V	0-10A	6 1/2' 6 1/2AWG	N/A	6-1/2' 16-3	40	16x19x16"	3	US9	19 37
6066A	60/30A, 14.9V	120V, 12A 60Hz	Up to 20 12V	5	P	Y	2	11-17V	0-100A	6 1/2' 6 1/2AWG	N/A	6-1/2' 16-3	40	16x19x16"	3	US9	17
6068	110A, 15.5V	190-262V, 13.9A 50/60Hz	Up to 36 12V	7	P	N	16	0-19.99V	1-110A	5' 1 AWG	N/A	Permanent Installation Only	83	14x16x26"	3	US9	19
6078	30A, 14.9V	230V, 50/60Hz	Up to 10 12V	7	P	N	16	11-17V	1-50A	8' 10/2 AWG	N/A	6-1/2' 14-3	40	16x19x16"	10	US9	19
6080A	6A, 106V	120V, 8A 60Hz	1 to 36 Cells	7	S	N	64	N/A	0-6A	8' 10/2 AWG	300A	6-1/2' 16-3	40	16x19x16"	3	US9	18
6082	6A, 0-158V	120V, 13A 60Hz	1 to 60 Cells	7	S	N	Adjustable	N/A	0-6A	8' 10/2 AWG	100A	6-1/2' 14-3	45	16x19x16"	3	US9	18
6366	20A X 4 CH	120V, 12.5A 60Hz	1 to 4 12V	6	I	Y	Automatic	N/A	N/A	4 Sets 6' 12/2 AWG	300A	6-1/2' 16-3	40	16x19x16"	3	US9	17

1 Two Year Bumper to Bumper and 5 Year on Transformer and Rectifier
 2 Two Year Bumper to Bumper and 3 Year on Transformer and Rectifier
 3 One Year Bumper to Bumper

4 SLA
 5 SLA, AGM
 6 SLA, AGM, Gel-Cell

7 SLA, AGM, EFB, Lithium-Ion, Gel-Cell
 8 Two Year Bumper to Bumper
 9 Made in the USA with US and Globally Sourced Parts.

10 Please call for warranty information.

KWIKSTART

Model Number	Voltage	Peak AMPS	Cold Cranking AMPS (CCA)	Battery Power	DC Leads	Charger	Limited Warranty	Shipping Dimensions (LxWxH)	Weight (Pounds) Lbs	COO	Page Number
6127	12V	Up to 1100A	Up to 1100A	For Group 24 (Not Included)	8" 4AWG	10A 12V AGM Safe	1 YEAR	16"x17"x30"	48	US	11
6127XL	12V	Up to 1100A	Up to 1100A	For Group 31 (Not Included)	8" 4AWG	10A 12V AGM Safe	1 YEAR	18"x21.5"x30"	54	US	11
6256	12V	1700A	360A	12V/22Ah	32" 4AWG	Auto/500mA	1 YEAR PRORATED	4.25"x18"x11.5"	22	CN	13
6296	12/24V	3400A	720A	12V/44/Ah (2)	66" 2AWG	Auto/1000mA	1 YEAR PRORATED	10"x16.75"x18.25"	44	CN	13
KS400	12V	1700A	360A	12V/22Ah	36" 4AWG	Auto/600mA	1 YEAR PRORATED	17.69"x7.37"x16.75"	25	US9	12
KS401	12V	1700A	360A	12V/22Ah	84" 4AWG	Auto/600mA	1 YEAR PRORATED	17.69"x7.37"x16.75"	26	US9	12
MSK6211	12V	1700A	360A	12V/22Ah	32" 4AWG	Auto/500mA	1 YEAR PRORATED	4.25"x18"x11.5"	25	CN	13

LOAD TESTERS FOR ALL 12V BATTERY TYPES SLA, AGM, EFB, LI-ION

Model Number	Load	Ammeter	Voltmeter	Leads	Clamps	Limited WARRANTY	Shipping Dimensions (LxWxH)	Weight (Pounds) Lbs	COO	Page Number
12-1011	N/A	N/A	6/12V DC DIGITAL	10"	ALLIGATOR	1 YEAR	8.5"x7"x3"	1	CN	22
12-1012	Resistance	N/A	9-15V DC DIGITAL	6"	125A	1 YEAR	9"x11"x3.5"	2	CN	22
12-1015	Resistance	N/A	9-15V DC DIGITAL	6"	125A	1 YEAR	11"x15"x4.25"	3.5	CN	22
12-2415	Resistance	N/A	9-36V DC GRAPHICAL	64"	125A	1 YEAR	18.25"x13.25"x5.5"	7	CN	23
12-2416	N/A	N/A	N/A	N/A	N/A	1 YEAR	4"x3"x7.25"	2	CN	23
6024	125/125A	N/A	0-30V DC ANALOG	2" 14/3	300A	1 YEAR	7"x6"x11"	4	US	24
6026	135A	N/A	0-16V DC ANALOG	2" 14/3	300A	1 YEAR	7"x6"x11"	4	US	25
6028DL	60/125A	N/A	0-16V DC ANALOG	2" 14/2	125A	1 YEAR	7"x6"x11"	4	US	24
6029	125A	N/A	0-16V DC ANALOG	2" 14/2	300A	1 YEAR	7"x6"x11"	4	US	24
6030	125A	N/A	6-19V DIGITAL	2" 14/2	125A	1 YEAR	7"x6"x11"	4	US	25
6030DV	125/125A	N/A	6-30V DIGITAL	2" 14/2	300A	1 YEAR	7"x6"x11"	4	US	25
6031	125A	N/A	0-16V DC ANALOG	2" 14/2	300A	1 YEAR	7"x6"x11"	4	US	25
6033	125A	N/A	7-19V DC ANALOG	2" 14/3	300A	1 YEAR	7"x6"x11"	4	US	24
6034	500A CARBON PILE	4 1/2" 0-500A	0-16V DC ANALOG	2 1/2" 4 AWG	400A	90 DAYS	11"x12.5"x7"	10	CN	26
6036B	1000A CARBON PILE	6" 0-100A	0-16V DC ANALOG	5" 2 AWG	1000A 15 Sec Rating	1 YEAR*	14.75"x15"x15"	32	US	26
6036B-24	1000A CARBON PILE	6" 0-100A	0-32V DC ANALOG	5" 2 AWG	1000A 15 Sec Rating	1 YEAR*	14.75"x15"x15"	32	US	26
6039	600A CARBON PILE	DIGITAL LCD 0-199.99V DC	DIGITAL LCD 0-199.99V D	5.5" 4 AWG	500A	1 YEAR*	16.25"x10.5"x8.6"	17	US	26
6042	500A CARBON PILE	DIGITAL LCD 0-999A	DIGITAL LCD 0-32.0V DC	8" 4 AWG	500A	1 YEAR*	19"x36"x8"	67	US	27
6043	N/A	1A=1mV	N/A	10"	Up to 1000A	90 DAYS	10.5"x4.25"x2"	1	TW	29
6044	500A	DIGITAL 999 A LED	DIGITAL 0-45.0V LED	8" 4 AWG	500A	1 YEAR	24"x14"x14"	23	US	28
6044-C	500A	DIGITAL 999 A LED	DIGITAL 0-45.0V LED	8" 4 AWG	500A	1 YEAR	36"x18"x19"	58	US	28
6044-PC	500A	DIGITAL 999 A LED	DIGITAL 0-45.0V LED	8" 4 AWG	500A	1 YEAR	36"x18"x19"	58	US	28
7136R	1000A CARBON PILE	DIGITAL 0-1999A LED	DIGITAL 0-19.99V LED	5" 2 AWG	1000A 15 Sec Rating	1 YEAR	14.75"x15"x15"	32	US	26

BOOSTER CABLES AND ACCESSORIES

Model Number	Length	Gauge	Circular MIL Copper	AMP Clamp	Side Terminal Adapters	"Flexi-Spring"	Polarity Indication Safety Lite	SAE Rating	Shipping Dimensions (LxWxH)	Weight (Pounds) Lbs	COO	Page Number
6118	25'	4 AWG	37,044	500A	Yes	N/A	N/A	Heavy-Duty	12"x12"x6"	15	US	30
6119	30'	4 AWG	37,044	500A	Yes	N/A	N/A	Heavy-Duty	12"x12"x6"	17	US	30
6125	5'	4 AWG	37,044	N/A	N/A	N/A	N/A	Heavy-Duty	8.25"x8.25"x4"	3	US	31
6137	5'	4 AWG	37,044	N/A	N/A	N/A	N/A	Heavy-Duty	8.25"x8.25"x4"	4	US	31
6138	25'	4 AWG	37,044	500A	Yes	Yes	Yes	Heavy-Duty	12"x10"x5"	13	US	31
6139	25'	4 AWG	37,044	500A	Yes	Yes	Yes	Heavy-Duty	12"x12"x6"	17	US	30
6141/6141-25	15'/25'	5 AWG	32,900	500A	Yes	Yes	N/A	Aircraft Heavy-Duty	11"x11"x4"	9	US	33
6142	15'	5 AWG	32,900	500A	Yes	Yes	N/A	Aircraft Heavy-Duty	11"x11"x4"	9	US	33
6146	25'	1 AWG	83,600	800A	N/A	Yes	Yes	XX Heavy-Duty	12"x12"x9"	26	US	30
6147	12'	4 AWG	37,044	500A	N/A	Yes	Yes	Heavy-Duty	12"x10"x5"	6	US	31
6148	12'	1 AWG	83,600	800A	N/A	Yes	Yes	Heavy-Duty	12"x12"x9"	6	US	31
6149	5'	1 AWG	83,600	800A	N/A	N/A	N/A	Heavy-Duty	6"x6"x6"	3	US	31
6156	12'	5 AWG	32,900	400A	N/A	No	N/A	Heavy-Duty	11"x11"x4"	7	US	34
6157	12'	5 AWG	32,900	500A	Yes	Yes	N/A	Heavy-Duty	11"x11"x4"	8	US	34
6158	12'	5 AWG	32,900	500A	Yes	Yes	N/A	Heavy-Duty	11"x11"x4"	8	US	34
6159	15'	5 AWG	32,900	500A	Yes	Yes	N/A	Heavy-Duty	11"x11"x5"	9	US	35
6160	20'	4 AWG	37,044	500A	Yes	Yes	N/A	Heavy-Duty	11"x11"x5"	12	US	35
6161	20'	1 AWG	83,600	800A	N/A	Yes	N/A	X-Heavy-Duty	12"x12"x6"	17	US	35
6162	15'	1/0 AWG	100,700	800A	N/A	Yes	N/A	XX Heavy-Duty	10"x12"x5"	16	US	35
6163	25'	1/0 AWG	100,700	800A	N/A	Yes	N/A	XX Heavy-Duty	12"x12"x9"	25	US	35

CLAMPS

Model Number	AMP Clamps	"Flexi-Spring"	SAE Rating	Shipping Dimensions (LxWxH)	Weight (Pounds) Lbs	COO	Page Number
6199	400A	N/A	Heavy-Duty	8.75"x13"x1.5"	1	US	31
6200	ADAPTER	N/A	Heavy-Duty	4"x7"x1"	1	US	31
6202	500A	YES	Heavy-Duty	8.75"x13"x1.5"	2	US	31
6205	800A	YES	Heavy-Duty	8.75"x13"x1.5"	2	US	31
6207	POLARIZED PLUG KIT	N/A	N/A	8.75"x6.5"x1.5"	1	US	31
6208	175A POLY CARB PLUG	N/A	N/A	8.75"x6.5"x1.5"	1	US	31
6216	POLARIZED AN PLUG	N/A - AIRCRAFT	N/A	8.75"x6.5"x1.5"	1	US	33
6217	POWER PLUG	N/A - AIRCRAFT	N/A	8.75"x6.5"x1.5"	9	US	33

ACCESSORIES

Model Number	Description	Shipping Dimensions (LxWxH)	Weight (Pounds) Lbs	COO	Page Number
6038C	Tester Cart for 6039, 6042, 6044, 6036B, 6038-24, 7136R	14.13"x35.13"x5.5"	41	US	29
6075	10 Clamp Set Bus Bar	31"x15"x4.63"	24	US	20
6075CB	10 Clamp Set Circuit Breaker Bus Bar	31"x15"x4.63"	25	US	20
6075S	10 Clamp Set Smart Bus Bar	31"x15"x4.63"	25	US	20
6086	10 Clamp Set Battery Charging Rack	3 Boxes	110	US	21
CC6212	Positive Cable Clamp Covers, Pair	13.25"x9"x7.25"	1	US	14
MS6209	8' Coil Cord OBDII to 12V Power Port Input	13.25"x9"x7.25"	1	CN	14
MS6209-12	12' OBDII to 12V Power Port Input Plus Cable Cover	13.25"x9"x7.25"	1	CN	14
MS6210-12	12' 12V Power Port Input/Output Plus Cable Cover	13.25"x9"x7.25"	1	CN	14