

A close-up photograph of an automotive alternator, showing its silver, ribbed housing and black pulley. The alternator is mounted in an engine compartment, with various hoses and mechanical parts visible in the background. A prominent diagonal graphic element, consisting of a red stripe on the left and a white stripe on the right, runs across the image from the top left to the bottom right. The right side of the image is overlaid with a blue background.

**INNOVATIVE  
SOLUTIONS  
BACKED BY  
EXPERIENCE**



**AMERICAN  
POWER  
SYSTEMS, INC.<sup>®</sup>**

A ROBUST  
TRADITION OF  
**DEPENDABLE  
POWER  
SOLUTIONS**



When you need the job done right the first time, you can depend on American Power Systems, Inc. (APS), a globally renowned leader and innovator in robust power solutions for armored, security, commercial, marine and purpose-built specialty vehicles like RVs and luxury motor coaches.

At APS, we understand vehicle power is about so much more than getting the job done; it is also about enabling our clients and end users to do their best work with dependable power that keeps them safe and connected, no matter where the job takes them.



## EXPERIENCED INNOVATORS

APS staff has nearly 300 years of combined experience in the various fields of expertise we handle, making us a unique business partner for all your power needs. While we often collaborate with organizations in the early stages of vehicle project development, we are humbled by the fact that, many times, our team is called upon when the need for ample power is critical—in terms of both timeline and mission.

## A GLOBALLY TRUSTED PARTNER

When other power solutions have failed or simply don't exist, our team steps into the gap to find solutions that really work. With a worldwide reputation for quality, innovation and expertise, APS has become the trusted partner of a variety of governmental agencies and companies around the globe.

To date, APS products have been used on more than 10,000 vehicles across multiple continents, including Africa, Asia, the Americas, Europe and Australia. In fact:

- Our products meet relevant specifications and are approved for use with many vehicle platforms utilized by the United States Dept. of State, which classifies APS products as **"life-saving equipment."**
- APS is an **approved power upgrade provider** for the Australian Department of Defence, United States Department of Defense and the U.S. Special Operations Command.

With a growing client base and award-winning success, APS continues to expand and offer its business partners reliable, dependable and durable products and hands-on support.

## **DURABLE, DEPENDABLE ON-VEHICLE POWER SOLUTIONS**

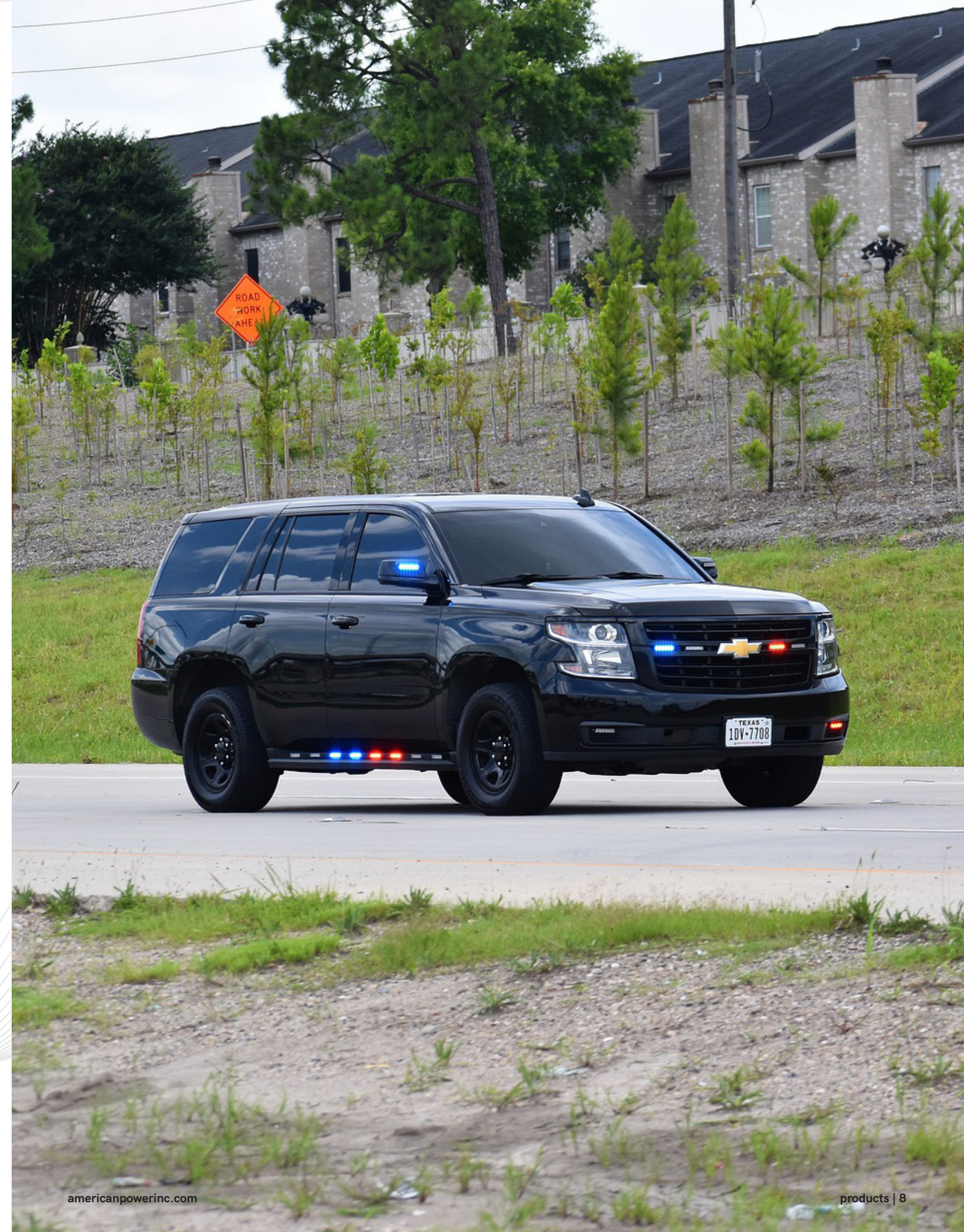
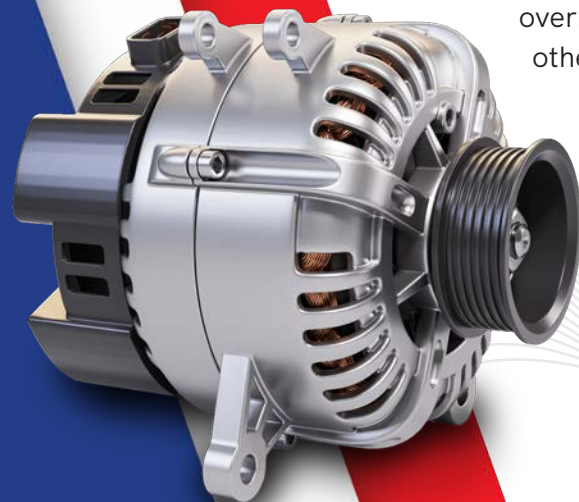
When you need reliable products to keep your company going strong, APS is the premier choice for robust power solutions. APS partners with vehicle up-fitters, fleet-based enterprises and other domestic and international automotive and marine businesses to provide ample vehicle power that enables end-users to get the job done safely and efficiently.

# HIGH OUTPUT ALTERNATORS

APS's high output alternators and dual alternator systems provide unparalleled, continuous high power that our clients depend on to get the job done. From 12 to 56 volts, APS high output alternators offer tested, proven durability.

With over 2,000 vehicles currently in the field and 18,000 test miles logged at the Nevada Automotive Test Center, our high output alternators withstand the harshest environments to deliver stable, dependable power. Proudly designed and built in the United States, APS high output alternators give you the added output needed to energize equipment such as anti-IED jammers, communication systems, satellite equipment, cooling systems, power tools, work-truck systems and more.

- **Compact and lightweight**, our high output alternators pack more power into a smaller, lighter case.
- APS alternators can **double or triple** a vehicle's OEM output, and with a dual alternator solution, we can provide as much as **five times more power**.
- APS alternators are rated as **highly efficient**, with efficiency of 80 percent or greater, and therefore consume less fuel, costing less to operate and contributing to less engine wear than other options.
- APS high output alternators **self cool** with singular or dual internal fans and high-performance heat sinks, allowing the user to work these units hard without overheating or causing damage to other equipment.



**“Integrating systems overseas is never an easy task. APS supported us with these projects and contributed to the success of our team in the US and abroad.”**

Yuval Bezherano, Executive Vice President  
New Age Security Solutions, Dulles, Virginia USA

## CONVERTERS

Whether you are using a bi-directional DC-DC, DC-DC boost or DC-DC step down, you can always count on the dependable quality of APS's converter options.

- APS's high-efficiency power supplies are **compact and uniquely low-profile** with rugged construction that's built to **withstand harsh environments, shock and vibration**.
- Boost units **eliminate the need for additional batteries**, saving space and reducing costs.
- Buck units allow the user to operate equipment that requires a regulated 12-volt DC power source from a system operating at 24 volts DC.
- Bi-directional converters allow for **greater flexibility** in vehicles with two batteries, allowing conversion to either a higher or lower voltage depending on need.



# CUSTOM BRACKETS & DUAL ALTERNATOR BRACKET KITS

APS custom alternator brackets and dual alternator bracket kits provide the needed stability and support to the alternator(s) inside the engine compartment. APS designs custom alternator brackets and dual alternator bracket kits for optimal fit, form and function, including precision alignment of the pulleys fed from your vehicle's engine to the alternator(s).

- With our custom alternator brackets, APS can **accommodate changes to the OEM engine** schematic based on client requirements.
- Custom bracketry can also fulfill any needs to **add other systems or equipment** under the hood, and dual alternator bracket kits allow for the placement of two high output alternators within a crowded engine compartment to **deliver the power required to meet critical demands.**
- Our custom alternator brackets offer durable support and stability to ensure proper function for more power and allow for precision pulley alignment and **better overall system performance.**



**“Having a quality power solution is essential in the design of specialty vehicle platforms; being able to execute is what makes the American Power team and their products stand out.”**

Kevin Sorensen, ECM Support  
Allen-Vanguard Corporation, Ontario, Canada

# ALTERNATOR REGULATORS

APS's state-of-the-art alternator regulators are the industry standard in DC charge controllers, providing optimal battery charging and care.

- **Highly configurable** and enabled to communicate via control area network (CAN) communication, APS regulators can be used with 12-, 24- and 48-volt systems along with others.
- Units are **completely customizable** with no hardware change, work with all commercial batteries and are ideal for marine and RV applications, as well as commercial trucks and vans.
- These advanced units use multiple data points—including battery voltage, current in/out and battery and alternator temperature—to **charge virtually any commercially available battery type**, including the latest in lithium-ion technology.



## ACCESSORIES:

### High-idle Switches, Lithium-ion Battery Storage

APS is your full-service power solutions partner, which means we offer a variety of easy-to-install accessories that complement APS product configurations. These products work in tandem with APS alternators, regulators, brackets and converters to provide you a complete, durable and efficient power system to maximize your production.

- APS high-idle controls increase engine-idle RPM to **ensure consistent electrical power** to the systems end-users rely upon to get the job done.
- APS products are perfect for **professional vehicle integrators looking to complement full lithium-ion battery systems** on a variety of mobile applications. APS is a preferred component supplier on many leading platforms using advanced energy storage systems.



## VEHICLE PLATFORMS

APS is globally trusted for its innovative power solutions using dependable products configured for multiple platforms. We offer power solutions for Armored and Security vehicles, Commercial and Fleet vehicles, and more. Platforms include:

### **CHEVROLET**

Express Vans  
Silverado  
Suburban  
Tahoe

### **RAM** ProMaster

### **FREIGHTLINER Trucks**

### **JEEP** Grand Cherokee

### **MERCEDES- BENZ**

Sprinter

### **NISSAN**

NV Passenger Cargo Van  
Patrol

### **LIGHT TACTICAL VEHICLES**

### **TOYOTA**

Fortuner  
Hilux  
Land Cruiser

### **FORD**

E-Series  
F-Series  
Ranger  
Transit

### **DON'T SEE YOUR PLATFORM?**

Contact our program managers now to see how APS can help you as a valued partner. Visit our website to view our current platform directory.

# SERVICES

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## YOUR FULL-SERVICE PARTNER

From custom design and integration to rigorous product testing and hands-on customer support, APS' value-added services are the reason why APS is globally trusted to keep you running.

## CUSTOM DESIGN WITH YOUR NEEDS IN MIND

Your vehicle – as well as how and where you use it – makes your overall application unique. Before suggesting a solution, our team counsels each client individually to help discern needs based on equipment requirements, as well as other environmental and utilitarian factors. The APS team works hand in hand with clients to develop systems to meet their specific critical power demands.

## COMPLETE INTEGRATION & OPTIMIZATION

APS can assess the individual components of your system to provide a complete design package that preserves battery life and enhances performance and longevity. Our complete DC power solutions utilize a variety of APS products – ranging from high output alternators, brackets, and converters to regulators and assorted accessories – all designed to complement each other for maximum power efficiency.

## QUALITY TESTING, DEPENDABLE POWER

You never have to worry about quality with APS. We provide both onsite and third-party testing services to ensure our products and systems not only meet client specifications but also withstand tough conditions.



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