Established in 2006, American Power Systems, Inc. has roots in providing ample power to industry and operators since the 1990s.

Over the years our team has developed power systems for allied governments and armed forces, Fortune 500 companies, and end-users from Daytona to Dubai.

While our focus has shifted from the individual hobbyist to armored, security, fleet and marine applications, the APS team still enjoys a good challenge and continues to take pride in meeting our clients’ demands for dependable high power, no matter where work takes them.
The mission capability of our partners is at the heart of everything we do at American Power Systems, Inc.

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.

When other power solutions have failed, or simply don’t exist, our world-renowned team steps into the gap to find solutions that really work. You can read about them here.

At APS vehicle power is about so much more than getting the job done: It’s also about enabling our partners to do their best work—all while keeping operators safe and connected. For this reason, we think of end-users as our clients, too.

I couldn’t be more proud to introduce my team and our products and services. We’ll be here when you need us most.★

Amy Lank
President, American Power Systems, Inc.

AMPLE POWER.
MISSION CAPABLE.
DUAL ALTERNATOR KITS

APS custom-designed dual alternator brackets help pack more power into your existing engine configuration, even with the addition of other aftermarket systems or equipment under the hood. Coupled with two high output alternators, APS brackets help meet even the most critical demands.
American Power Systems, Inc. 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. We design and manufacture advanced, mobile electric power solutions and purpose-built auxiliary power units for armored, security, commercial, marine and special vocational vehicles.

**ALTERNATORS**
Compact and lightweight, our high output alternators directly replace OEM units on most vehicle platforms. Units provide dependable, highly efficient output to energize the mission-critical equipment you need to complete more work, keep end-users safer and better connected, provide more cabin comforts, or even improve your competitive racing game on the water.

**CUSTOM BRACKETRY**
APS is an industry leader in the design of custom alternator brackets for armored, security, commercial and fleet applications. Clients often contact APS when traditional solutions to critical on-vehicle power challenges either won’t work or don’t exist. Our custom alternator brackets, in conjunction with our other products, allow the APS team to design creative solutions for even the most demanding scenarios.

**DC-DC CONVERTERS**
APS high efficiency power supplies are designed for military use, so they’re 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 cost. 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.

**HIGH IDLE CONTROLS**
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. Clients often combine a high idle engine switch with a high output alternator and custom alternator bracket—or dual alternator bracket kit—for a complete package that delivers high power regardless of whether the vehicle is in motion or stationary.
Our products meet all relevant specifications and are approved for use with all current United States Department of State vehicle platforms.

United States Department of State classifies our products as life-saving equipment.
“The APS team responds to our needs and technical questions promptly and thoroughly. 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

“A quality power solution is essential in the design of specialty vehicle platforms; being able to execute is what makes APS stand out.”

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

“We have been doing business with APS for several years. They always have provided us with timely delivery and quality products.”

Christy Henry, Owner
Sandy Valley Fasteners, Paintsville, Kentucky

“On our boats, there’s so much energy at idle, we’ve switched from gas stoves to DC-powered instant water heaters for safety, weight and convenience! If you’re looking for big case, high-output alternators for applications where reliability and weight are important, you just can’t beat APS.”

Wayne Meretsky, Owner
Kinetic Scientific, Auckland, New Zealand

“We operate a fleet of 14 buses, and we do a lot of idling. We were going through alternators every six to 12 months. Almost three years after making the switch to APS, we just had our first failure. Your alternators have saved us a lot of money, and more importantly, a lot of downtime.”

Brandon Wayne, Fleet Manager
Reef Parking, Lexington, Kentucky
DESIGN & ENGINEERING

Our engineering team provides custom design, system integration and testing services to complement and support our mobile electric power generation and storage systems. We can help you select or build an optimal solution and empower you to make the most of it with the service you need.
At our facility in Davenport, Iowa (US), our team evaluates vehicle platforms for mobile electric power solutions based on customer and industry requirements. We design integrated power systems and perform ambient and catastrophic testing to ensure our products withstand even the most severe conditions. As a preferred supplier to government agencies and fleet operators worldwide, APS develops and provides power solutions that support vehicles and personnel in an array of environments and theaters.

**SMART REGULATORS**

Highly configurable and enabled to communicate via control area network (CAN) communication, APS regulators integrate with 12-, 24- and 48-volt systems, as well as others. Units are customizable with no hardware changes, work with all commercial batteries, and are ideal for vocational vehicles of all types. These advanced units use multiple data points—including battery voltage, current in/out, and battery and alternator temperature.

**LITHIUM-ION STORAGE**

With five times the life expectancy of batteries, our scalable lithium-ion storage solution charges in under two hours and runs for 12. It seamlessly integrates into our partners’ base designs without specialized engineering or recurring configuration costs. Using technology on par with automotive OEMs, our system is lighter than a traditional system and built to withstand a wide temperature range.

**AUXILIARY POWER UNITS**

Complete mobile power for off-grid applications at work, on the road, and anywhere in between. Purpose-built to meet our partners’ needs from 12 to 48 VDC nominal voltage, units are customizable atop a dependable engine platform for stable, continuous DC power generation when traditional power sources aren’t available. Ideal for industries such as aerospace and defense, mining, construction, recreation and safari.

**BATTERY ISOLATORS**

Charge dual batteries from a single power source and discharge them independently. APS single- and dual-rectifier battery isolators protect vehicle batteries and improve battery life for low-voltage (12-24 VDC), high-current (100-600 amp) systems. Units represent the highest amperage isolators available. MIL-STD-461E compliant.
RECENT POWER SYSTEM UPGRADES BY APS

CHEVROLET SUBURBAN

Custom solution for government client
- APS dual alternator bracket kit with two 255HPI (255-amp, 12-volt) alternators
- Providing over 300 amps at vehicle idle

TOYOTA LAND CRUISER

Power for on-vehicle security equipment
- APS secondary bracket adding a 360HPI (360-amp, 12-volt) alternator
- Solutions available for petrol and diesel engines

FORD F-SERIES

12- and 28-volt systems on the same vehicle
- APS dual alternator kit adding a 185-amp, 28-volt alternator
- Powering a secondary imaging system for security end use