

“I really appreciate this! Working with your company has been wonderful. Everyone has been so helpful and professional. Thanks again!!!!”

• Rose Burke
LMCO

“I like what your company is doing; I’m very impressed with your responsiveness.”

• K. Farmer
L-3 Communications
Albuquerque, NM

“You guys make a hell of a battery charger.”

• Don Butterbaugh
Harris Corp.



Analytic Systems
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KEY MILITARY PRODUCT CLIENTS

A major part of our business continues to be the alternative energy, industrial markets and marine industries . In recent years, our customer base in the **military** and **government** sectors has also greatly expanded and now includes:

- Raytheon
- Northrop Grumman
- DND Canada
- Elbit Systems
- US Army
- Syracuse Research Corp.
- Boeing Corp.
- US Navy
- US Marine Corps
- BAE Systems
- Telephonics
- Lockheed Martin
- Rheinmetall
- Thales Avionics
- Teleflex Canada
- AAI Corp.
- Sperry Marine
- US Air Force
- Australian DoD
- Harris Corp.
- US Army Corp. of Engineers
- NAVSEA
- Isreal Aerospace Industries
- Supplier to the MBU Project
- General Dynamics OTS
- SAIC
- Textron

Rugged and Reliable Power Conversion Solutions

Mission Statement

To achieve product excellence and customer service superiority through the development of high performance power conversion products for military, alternative energy, industrial, marine, automotive and rail, at a competitive price, which surpasses the needs of our customers. Analytic Systems' management is committed to innovative and cutting edge technology in the design and development of inverters, solar charge converters, converters, battery chargers and power supplies.

History

Founded in 1976 by Lloyd Hargrove, P.Eng, control of Analytic Systems passed to his son, Jim Hargrove, P.Eng, in 1993. The company was one of the first to develop high frequency switching converters for marine applications (in 1976), and offered pure sine-wave inverters in 1994, years ahead of the competition. Through the years, Analytic Systems has seen steady growth by serving our customers with reliable and robust power conversion products. Our ongoing R&D programs create innovative, state-of-the-art electronic designs that provide clean outputs in efficient and compact packages.

Manufacturing

At Analytic Systems we know that the reliability of our systems depends not only on the quality of the design and manufacture, but also the quality of service backup that we provide to our customers. Our wholly owned manufacturing site adheres to the latest quality management practices (Q-Base Quality Certified) and full Lean Manufacturing principles. Our products are designed to meet and exceed many of the latest international testing standards (i.e. CSA/UL, CE); proving that Analytic Systems is committed to Quality, Service, Support and Safety.

Competitive Advantage

When it comes to power conversion, Analytic Systems is widely regarded as one of the most versatile and responsive companies in the industry. With access to some of the most gifted designers of electronic circuitry and operational personnel committed to the highest standards, we are able to turn feedback from our customers and market intelligence, into profitable, new development projects and provide the highest quality of product available. We can take your ideas and specs and provide a solution for one unit or one thousand and one units.

Products

DC/DC Voltage Converters, MPPT Solar Charge Controllers, DC/AC Power Inverters, AC/DC Power Supplies, AC/AC Frequency Converters, DC & AC Source Battery Chargers, Configurable, OEM and Custom Power Solutions.

Customer Base

Our customer base includes military prime contractors, original equipment manufacturers (OEMs), federal government departments, and end users in the military, alternative energy, communications, fleet utility, heavy equipment, rail, automotive, industrial, commercial marine and general mobile electronics markets.

Customer Support

While Analytic Systems' corporate headquarters and its manufacturing plant are located just outside of Vancouver, BC, Canada, the company has significant marketing, technical support and authorized distributorships throughout the world. From stocking distributors across Canada and the US, to Resellers and Manufacturer Representatives in Australia, Asia, Europe and South America, our products are available wherever high performance power conversion is needed.

Power Supplies

PWS310
PWS610
PWS1000
PWS1510

Battery Chargers

BCA310
BCA610
BCA1000
BCA1510

DC Converters

VTC120
VTC180
VTC300
VTC305
VTC310
VTC315
VTC600
VTC605
VTC610
VTC615
VTC1000
VTC1015

Inverters & Frequency Converters

IPS300
IPS600
IPS1000
IPS1500
IPS2000
FCA500
FCA1000
FCA1500
FCA2500
FCA5000



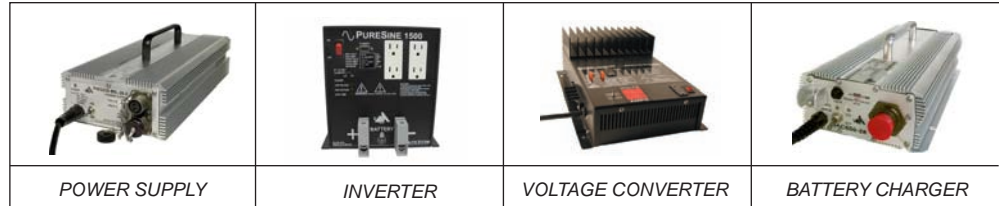
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C.O.T.S. MILITARY PRODUCTS

Most of the C.O.T.S. (Commercial Off The Shelf) products manufactured by Analytic Systems can be adapted for military use. We provide many different levels of ruggedization; most often, a product in military use is equipped with extra-wide temperature range components to allow for operation up to -40C to +55 degrees C. The printed circuit boards are also protected against condensation and are enhanced with vibration protection that meets or exceeds MIL-STD810D, Method 514-3 and Cat-I Proc I. C.O.T.S. products are built to meet water tightness MIL-PRF 44485 and EMC radiated and conducted emissions MIL-STD 461E. All C.O.T.S. products are manufactured in accordance with IPC-A-610. Many C.O.T.S. products can be modified to meet up to IP67 environmental protection.



Power Supplies

Analytic Systems produces specific products for military use. We are currently in the seventh year of manufacturing the Power Supply and the Portable Battery Pack for the US Army MBU Field Kitchen Program. Over 7000 units are in the field or on order. Over the past seven years, the return rate is less than 0.01%. The MBU power supply has been the benchmark for a number of new military specific products: a Lithium Ion battery charger for a NATO weapons systems; rugged powers supplies for man-portable radar systems, etc. SPAWAR uses the PWS610R-220-12 and the 220-48 Rackmount Power Supplies.

The MBU power supply operates from any 110 volt AC source and produces enough power to operate a military cookstove. Producing 26 volts DC and 24 amps continuous, at up to 50 degrees C, and with a peak current of 45 amps, the MBU power supply meets MIL-STD810D, Method 514-3 and Cat-I Proc I for vibration, and MIL-461E for both radiated and conducted noise. This unit can also withstand rainfall at 4 inches per hour.

Battery Chargers

The MBU Portable Battery Pack produces a regulated 26 volts for running MBU cook stoves in the absence of AC power from a pair of sealed VLRA batteries. When batteries need recharging, the Battery Pack is plugged into the auxiliary 24 volt power outlet on a HMMWV and recharges the batteries using a 3-stage temperature compensated charging algorithm. The MBU also passes the MIL-STD810D, Method 514-3 and Cat-I Proc I test for vibration. The USAF uses the BCA1000-110-24 Battery Charger and Harris Corp. uses BCA610-220-24 in their rugged applications in Ethiopia.

DC Converters / AC Inverters / Frequency Converters

Analytic Systems has supplied DC-DC voltage converters, DC-AC Inverters, AC-DC power supplies and all types of battery chargers to almost every branch of the US Military and various international military groups. The USMC uses VTC605-12-24 Voltage Converter in an anti-IED program, the US Army uses customized versions of the PWS1510MS-24 auto-ranging input power supply and VTC615-24-24 in various operations. NAVAIR uses the IPS600-12-110 and IPS1000-20-110 Pure Sinewave Inverters, Northrop Grumman uses a range of militarized Puresine Inverters from the IPS300 to IPS2000 in their Command Post Platform Program, and the Canadian Coast Guard uses the VTC615 to supply clean power to their gyroscopes. Thales Avionics and the USAF require our AC/AC Frequency Converters for a variety of ground operations.

Custom Power Requirements

Analytic Systems offers custom-engineered power solutions up to 10KW. Working closely with our customers, we can help you to better understand and define your power conversion requirements. AAI Corp. needed assistance with a solution for their Unmanned Vehicle System. We provided a solution combining a number of customized Power Supplies and Li-Ion Chargers. We also offer full cycle support for all of our products, including ongoing maintenance and repair services. We have a tradition of maintaining long-term relationships with our customers who continue to rely on our design, technical, manufacturing and project management expertise.