

Power Supplies

PWS310
PWS610
PWS1000
PWS1502

Battery Chargers

BCA310
BCA610
BCA1000
BCA1502

DC Converters

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

Inverters & Frequency Converters

IPS300
IPS600
IPS1000
FCA500
FCA1000
FCA1500



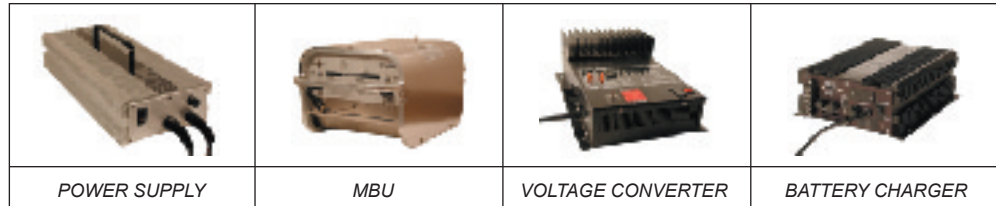
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C.O.T.S. MILITARY PRODUCTS

Most of the products manufactured by Analytic Systems can be adapted for military use (Commercial Off The Shelf). We provide four 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 -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.



Power Supplies

Analytic Systems can also produce specific products for military use. We currently manufacture the Power Supply and the Portable Battery Pack for the US Army MBU Field Kitchen Program.

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. The US Navy uses the PWS610-220-12 and the 220-48 Power Supplies.

Battery Chargers

The MBU Portable Battery Pack produces a regulated 26 volts for running MBU cookstoves in the absence of AC power from a pair of sealed VLRA batteries. When the batteries need recharging, the Battery Pack is plugged into the auxiliary 24 volt power outlet on a HumVee 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.

DC Converters / AC Inverters / Frequency Converters

Analytic Systems has also supplied DC-DC voltage converters, DC-AC Inverters, AC-DC power supplies as well as all types of battery chargers to almost every branch of the US Military and Coast Guard. The US Navy uses the VTC615-24-24 Voltage Converter and the US Army, in addition to the MBU Power Supply, uses customized versions of the PWS1502-110-24 and VTC615-24-24 in various operations. NAVAIR uses the IPS600-12-110 and IPS1000-20-110 Pure Sinewave Inverters, and the Canadian Coast Guard uses the VTC615 to supply clean power to their gyroscopes.

Custom Power Requirements

Analytic Systems also offers custom-engineered power solutions up to 60KW. Working closely with our customers, we can help you to better understand and define your power conversion requirements.

We also offer full life cycle support for all 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 technical, manufacturing and project management expertise.

“Analytic Systems units work flawlessly... We are very pleased with their performance.”

- Jason Dugas
Lead Power Engineer
NASA's Johnson Space Center

“The extremely heavy input filtering and reliable, marine-grade design sets all of Analytics' units apart... ”

- Cap'n Jacks Software Source
Port Ludlow, WA

“If you require clean, well controlled power input, you can't beat Analytic Systems.”

- Larry Janke
Southeast Marine Services
Scappoose, OR



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KEY MILITARY PRODUCT CLIENTS

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

- ITT Industries
- ENSCO Ltd.
- Aerospace Integration Corporation
- United Defense
- Saft Batteries
- US Army Field Support Groups
- US Army Corp. of Engineers
- US Air Force
- SPAWAR
- NAVSEA
- Supplier to the MBU Project
- General Dynamics
- Teleflex Canada
- Telephonics
- DND
- US Army
- US Coast Guard
- NASA
- US Navy
- Titan Corporation
- Lockheed Martin
- Northrop Grumman
- BAE Systems Canada
- US Marines

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 marine, military, automotive, rail, industrial and alternative power sources 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, 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 sites adhere to the latest quality management practices, and 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.

Products

DC/DC Voltage Converters, 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 prime contractors, original equipment manufacturers (OEMs), federal government departments, and end users in the military, communications, fleet utility, heavy equipment, alternative energy, rail, automotive, industrial, commercial and recreational marine, and general mobile electronics markets.

Customer Support

While Analytic Systems' corporate headquarters and two manufacturing plants 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 Agent and Manufacturer Representatives in Australia, Asia, Europe and South America, our products are available wherever power conversion is needed.