



TOGETHER WE

POWER ON

PRODUCT PORTFOLIO

WHY STACO ENERGY PRODUCTS?

WE ARE YOUR CUSTOM POWER SOLUTIONS PROVIDER.

Unique application design demands, harsh environment concerns, the need to meet non-standard physical space requirements—providing the “not so usual” is what we do best.

From leading edge uninterruptible power supplies, power conditioners, power factor and harmonic correction equipment to the world’s most stable voltage control systems, we have the technology you need to protect and manage your business, and the knowledge to make it work for you.

Since 1937, customers worldwide have relied on Staco Energy, as their custom solutions provider, to solve a wide range of electrical power problems. Headquartered in Miamisburg, Ohio, Staco Energy Products is a wholly owned subsidiary of Components Corporation of America, located in Dallas, Texas.

OUR CUSTOMERS

Staco Energy Products has had the privilege of serving some of the finest companies in the world. We are proud of the relationships we've built with these companies, and with all of our customers.



S E P H O R A



3M Corporation
AAON Heating & Cooling Products
Abbott Laboratories
Acrodyne Communications, Inc.
Amdahl (A Fujitsu Company)
Analog Devices, Inc.
Andritz
AT&T Technologies
AVO International
BASF Corporation
Bethlehem Steel Corp.
Boeing Company
Boise Cascade Corp.
Bridgestone/Firestone
Broadcast Electronics, Inc.
Broward Yachts
Campbell Soup Company
Canon
Carrier Corporation
CBS
CitiGroup, Inc.
Cloud HQ
CNN
Cutler-Hammer (Eaton)
Daikin Applied
Daikin/Goodman Mfg
Dupont
EDS (Electronic Data Systems)
Eli Lilly Company
ESPN
Exxon Mobil Corporation
FAA (Federal Aviation Administration)
Ford Motor Company
FOX-TV
Gates Air
General Dynamics Corporation
General Electric Co.
General Motors Corp.
Graham Media Group
Hobart Corporation
Honeywell Corp.
IBM Corporation
Ice Qube
Illinois Tool Works Inc. (ITW)
Ingersoll Rand
Intel Corporation
Johnson Controls
Juno Lighting, Inc.
Kimberly-Clark Corp.
LeBlanc, Ltd.
Lockheed Martin
Lucent Technologies
Metro-Goldwyn-Mayer, Inc. (MGM)
MagneTek, Inc.
Marine Drilling Companies, Inc.
Maytag Corporation
McBride Electric
McDonald's Corporation
McKesson Corp.
Monsanto Company
Motorola, Inc.
NASA
NBC
Nautel, Ltd.
Newport News Shipbuilding
NOAA (National Oceanic & Atmospheric Administration)
Pacific Gas & Electric Company
PepsiCo
Pfizer, Inc.
Philips Medical
Procter & Gamble Co.
Raytheon Company
Regal Beloit
Rheem Manufacturing Co.
Richardson Electronics, Ltd.
Rockwell Automation
Shell Oil Co.
Siemens Energy & Automation, Inc.
Smart Wires, Inc.
Texas Instruments, Inc.
Toshiba Corporation
Transocean Sedco Forex
Tyco Electronics Corp.
Union Carbide Corp.
Universal City Studios
USX Corp. (Marathon Oil Co.)
Verizon Communications
Walt Disney
Walgreens Co.
Wards Marine Electric, Inc.
Wells Fargo & Company
Westinghouse Electric Company, LLC, part of the BNFL Group
Weyerhaeuser Company
Whirlpool Corporation
Xerox Corporation
Zenith Electronics Corp.

“

We went with Staco because the test stands had the capability we needed, the products have a good reputation in the industry, and a strong personal relationship.

— Director of Operations Development | AAON Heating & Cooling Products

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UNINTERRUPTIBLE POWER SUPPLIES

SINGLE-PHASE | ON-LINE DOUBLE CONVERSION

Backed by a three year warranty, the Staco Series is a reliable and durable single phase UPS with various communication options. Applications range from IT, Industrial Control to non-standard IT, such as traffic systems and wind energy. The true on-line performance provides a clean, steady sine wave safeguarding for the most sensitive equipment.



STACO V | 1 - 3 KVA | 120/120VAC & 230/230VAC

- Universal Rack/Tower Mount
- 0.9 Power Factor
- Hot Swappable Battery Design
- Battery Modules Available for Extended Runtimes
- Available Without Internal Batteries (LB Models)
- Emergency Power Off Function (EPO)
- Programmable Outlets



STACO VP | 6 & 10 KVA

- Universal Rack/Tower Mount
- Multiple Output Voltage Configurations
- Continuous Power Conditioning
- Emergency Power Off Function (EPO)
- Backfeed Protection
- LCD/LED Mimic Panel
- Parallelable



STACO PDU | FOR USE WITH STACO VP MODELS

- 2 ft. Hardwire (Pigtail) Input Cord
- Configuration Versatility
- Pre-Configured Standard NEMA Straight Blade and/or Locking Receptacles

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We know there are many companies offering UPS out there. We partnered with Staco as our UPS provider because of their quality products, backed by their extensive warranty, and most importantly, their proven commitment to a positive customer experience.

—— President | TechAdvisors Computer Support Services

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UNINTERRUPTIBLE POWER SUPPLIES



THREE-PHASE | ON-LINE DOUBLE-CONVERSION

The FirstLine Series consists of Three Phase UPS products from 10KVA to 500KVA. They automatically transfer to battery power and continue to provide power without interruption. Staco offers additional options including External Maintenance Bypass, battery monitoring, Remote Alarm Status Panel, and more. These products are reliable across all applications from Data Center, Industrial Process Manufacturing, Hospitals & Labs, and Universities.

FIRSTLINE PE 50 - 200 KVA | 480VAC

- Lower Initial Cost and Heat Output
- Unity Output Power Factor
- > 96.5% Efficiency
- Up to 99% Efficiency in ECO Mode
- 50/60 Hz Switching Capability
- 4 Year Warranty

FIRSTLINE P 65 - 500 KVA | 480/277VAC

- Up to 98% Efficiency in ECO Mode
- Flexible Input & Output Voltage Options Available
- Advanced Touch Screen Display
- Parallelable for Capacity or Redundancy
- Multiple Voltage Options
- Provides Galvanic Isolation to the Load

ALSO AVAILABLE

Precision Power Conditioner and Frequency Converter Models



BATTERY MONITOR



FIRSTLINE BMS-II WIRED BATTERY MONITORING SYSTEM

- Ease of Installation
- Alarms via Email & Dry Contact
- Web Based Graphical User Interface (GUI)
- Cell Balancing
- Data Available for Trend Analysis
- Can Integrate UPS Telemetry into One IP Device
- Optional IFC Compliant & Control

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UNINTERRUPTIBLE POWER SUPPLIES

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FIRSTLINE PLT 10 - 60 KVA | 208/120VAC

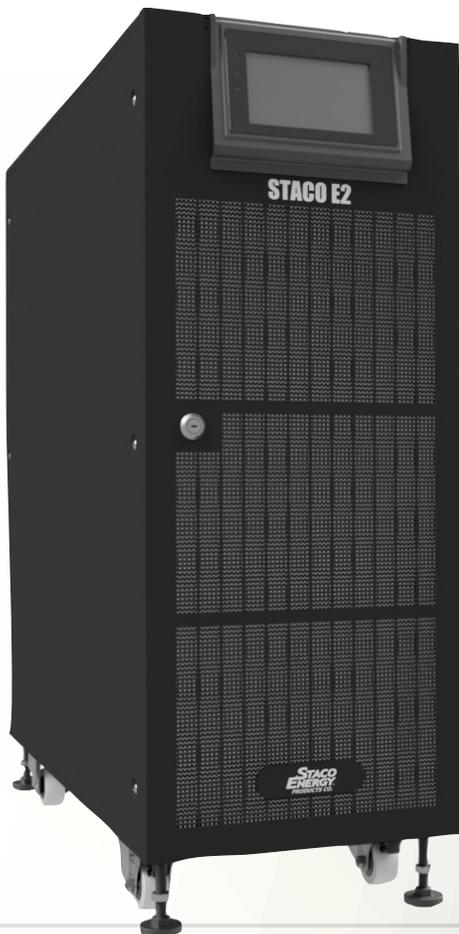
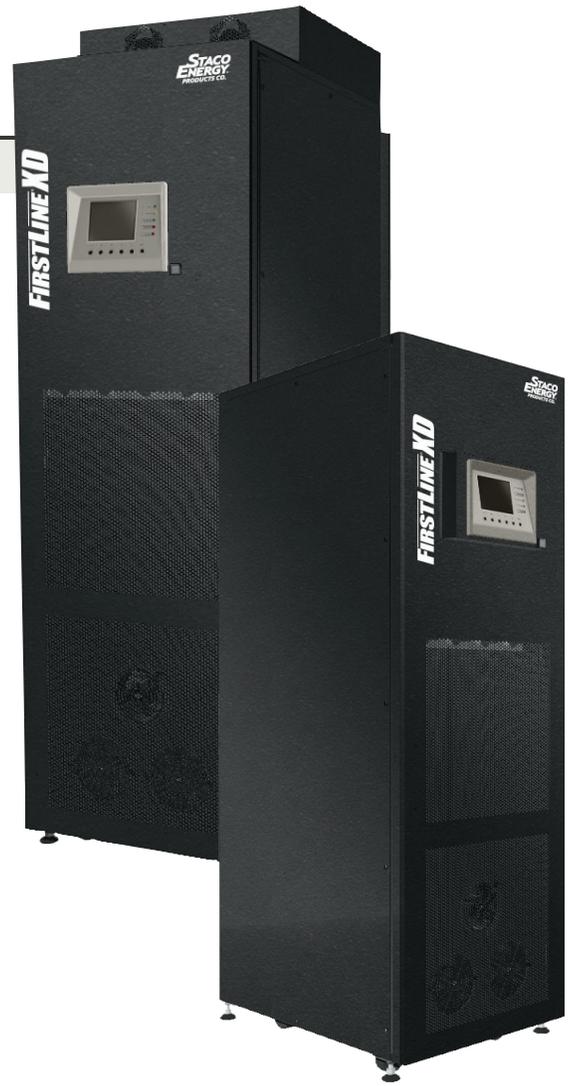
- Available in Other Voltages with Internal Transformers
- Parallel Up to 4 Units
- Compact Footprint with Internal Battery Options
- Dual Input Capability

POWER DISTRIBUTION

PDU's with Isolation Transformers and RPP's Available

FIRSTLINE XD 10 - 40 KVA | 208/120VAC | INDUSTRIAL UPS

- Available in Other Voltages with Internal Transformers
- Single or Three Phase Output Configurations Available
- Offers 50°C Rating without Derating UPS Output
- Input Friendly, Low Reflected Harmonic Content
- 5 Year Warranty



STACO E2 (Available ONLY Outside US) 10 - 60 KVA | 208/220VAC

- Output Unity Power Factor
- Up to 95.3% Efficient
- Compact & Reliable
- AC Input Performance

EMERGENCY LIGHTING INVERTERS

ON-LINE DOUBLE-CONVERSION UPS | 100% LED COMPATIBLE | PARALLELEABLE

Staco's UL924 Emergency Lighting products support a wide range of Single and Three Phase applications. These products can be configured for always on or always off applications, while supplying energy for the emergency lighting during critical moments. Each product can be configured as a standard UL-924 or as an UL-924 OUST product providing energy for 90 minutes or as desired by the end user. Staco's centralized Lighting Inverters are available with Maintenance Bypass, communication options, and in NEMA cabinets (3, 3R, 4X).

STACO 924 0.75 - 18 KW | SINGLE-PHASE

- Full Light Output for 90 Minutes
- Integrated LCD Display Indicates All Operating Parameters for Easy, Immediate Monitoring
- Pure Sine Wave Output for All Types of Lamps



SMALL FRAME
0.75 - 3 KW



LARGE FRAME
4.2 - 18 KW

FIRSTLINE PLT 924 9 - 54 KW | THREE-PHASE

- Advanced Circuitry and Battery Protection
- High AC to AC Efficiency
- User-Friendly Mimic Panel
- Available in Other Voltages with Internal Transformers



FIRSTLINE P 924 58.5 - 225 KW | THREE-PHASE

- Supports all Connected Lighting Loads
- Advanced Circuitry and Battery Protection
- Cost Effective, High Reliability Design
- Monitoring and Communications
- Customizable Battery Times

ACTIVE HARMONIC FILTERS

THREE-PHASE | IEEE 519 STANDARD

Staco Energy Products offers a wide range of Active Harmonic Filters that can be configured to eliminate a broad spectrum of harmonics on a distribution circuit or configured to target specific harmonics as defined by a power quality study. The StacoSine Plus Series is specifically designed to be integrated into motor control centers or other load centers to reduce the effect of VFDs, motors and other high harmonic content loads. The product can be configured for low voltage applications as well as some medium voltage applications.

STACOSINE PLUS 100 - 150 AMPS | 480VAC

- Parallelable up to 1200 AMPS
- Sub-Cycle Response
- Eliminates 2nd through 51st Harmonics
- Temperature Roll Back
- Variable Power Factor and Harmonic Current Control



TOUCH SCREEN LCD DISPLAY PANEL

POWER FACTOR CORRECTION BANKS

Staco Energy Products offers a wide range of StacoVAR Power Factor Correction systems in the form of switched capacitor banks, depending on the client's needs. The StacoVAR can be deployed to reduce the high energy cost associated with utility power factor penalties and oversizing infrastructure devices due to poor lagging power factors. These products can be configured to mitigate harmonic content using detuned reactance to protect the capacitors from the harmful effects of high harmonic content circuits.

STACO VAR

UP TO 2400 KVAR | 208 - 600VAC | SWITCHED CAPACITORS

- Microprocessor Based Controller
- Heavy Duty Capacitors
- User-Friendly Mimic Panel
- Available in NEMA 1, NEMA 3R, or NEMA 12 Enclosures



LV SWITCHED

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VOLTAGE REGULATORS & POWER CONDITIONERS

Staco Energy Products offers a wide range of Voltage Regulators and Power Conditioners in the form of Variable Transformer (StacoAVR) and Electronic (FirstLine PPC) Technology, depending on the client's needs. These voltage regulators are designed with maximum safety, ease of installation and efficiency in mind. They are continuously rated constant output voltage devices, regardless of typical input voltage variations from +10% to -20%. They're applied to provide stabilized voltage to industrial, commercial and public infrastructure applications where devices need continuous stable electrical supply. Examples include: Reducing voltage to large HVAC systems to reduce high energy cost, or stabilizing the incoming power to a large production facility so equipment operates efficiently, or supplying precise voltage to a single piece of equipment like medical MRI, production CNC, or Broadcast Transmitters.

STACO AVR

UP TO 2000 KVA | 120-600VAC | VOLTAGE REGULATION

- Power Conditioning System
- 1% or Better Continuous Voltage Regulation
- 97-99% Efficient
- Flexible Design



TOGETHER WE POWER ON

POWER CONDITIONERS & FREQUENCY CONVERTERS

THREE-PHASE | ELECTRONIC PRECISION POWER CONDITIONER | PARALLELEABLE

The FirstLine PPC/FC Series represents the latest in continuous voltage correction and conditioning technology providing the clean, regulated precision power for all your sensitive loads. These products protect your application from sags and surges that would normally damage your expensive devices. The Frequency Converters can be used for export product testing or operation of equipment rated at international frequency and voltage. In the event of a power failure, the unit can be equipped with an optional battery cabinet to ride through a limited outage.



FIRSTLINE PPC | 10-60 KVA 208/120VAC | 65-500 KVA 480/277VAC

- Precision Power Conditioner
- $\pm 2\%$ Voltage Regulation
- UL Listed
- Clean Regenerated Output Voltage Waveform
- Available in Other Voltages with Internal/External Transformers
- Parallel Up to 4 Units for Capacity
- Upgradeable to Full UPS

FIRSTLINE FC | 10-60 KVA 208/120VAC | 52-400 KVA 480/277VAC

- Frequency Converter
- 60/50Hz or 50/60 Hz Conversion
- $\pm 2\%$ Voltage Regulation
- UL Listed
- Clean Regenerated Output Voltage Waveform
- Upgradeable to Full UPS



PROVIDER POWER SYSTEM TEST SETS

THREE-PHASE | RUGGED | HIGH OVERLOAD | NO SINE WAVE DISTORTION

The StacoPPS Series are engineered turnkey solutions for AC voltage control used in the testing of electrical products. Our PPS units provide precise voltage control for any basic or sophisticated test laboratory needs in Production, Quality, or R&D labs. Examples include: Quality assurance labs, circuit breaker testing, HVAC, motor test, VFD, compressor, white goods, and product life cycle testing.

STACO PPS 0-4000 AMPS UP TO 3500 KVA | 0-1000VAC

- Precise, Accurate Voltages Available Making the PPS Design Flexible Enough for any Electrical Testing Application
- Fully Customizable from Standard Products
- Robust, Rugged Design for Years of Trouble Free Service
- Designed to be Easy to Use and Very Operator Friendly



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STACO SERVICE

FIELD SERVICE PROGRAM

Staco service is built upon a blend of factory direct service personnel and a world wide network of highly motivated and factory trained customer support engineers and technicians. We provide professional services and repairs throughout the world over the lifetime of your equipment.

- Start-Ups
- Preventive Maintenance
- Spare Parts
- Battery Analysis/Refresh/Replacement
- On-Site Training
- Time & Material Services
- Power Studies: Power Quality, Load & Usage



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