PROUCT PORIFOLIO



WHY STACO ENERGY PRODUCTS? BECAUSE WE ARE YOUR TAILORED POWER SOLUTIONS PROMDER!

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 tailored solutions provider, to solve a wide range of electrical power problems. Headquartered in Dayton, Ohio, Staco Energy Products is a wholly owned subsidiary of Components Corporation of America, located in Dallas, Texas.



UNINTERRUPTIBLE POWER SUPPLIES

SINGLE-PHASE | DOUBLE-CONVERSION | ON-LINE UPS

The UniStar® Series represents the latest in single-phase technology at an affordable price. Its true on-line performance provides a clean, steady sine wave safeguarding the most sensitive equipment.



UNISTAR V

1 - 3 KVA

- 120/120 VAC & 230/230VAC
- · Standard and LB Extended Models Available
- Universal Tower/Rack Mount



UNISTAR VP 6 & 10 KVA

- 0.9 Power Factor
- · Continuous Digital Signal Processor Control
- LCD/LED Mimic Panel
- Parallellable







UNISTAR PDU

FOR USE WITH UNISTAR VP MODELS

- 2 ft. hardwire (pigtail) input cord
- Configuration versatility
- Pre-configured standard NEVA straight blade and/or locking recptacles



UNINTERRUPTIBLE POWER SUPPLIES

SINGLE-PHASE | STANDBY

The UniStar® Smart Business Standby (SB²) UPS offers reliable power protection and battery backup for desktop computers, workstations, networking devices, POS systems, and entertainment systems. It provides battery backup and surge-protected outlets to meet the demands of multiple devices in a highly reliable package.



UNISTAR SB²

350 - 800VA

- Simulated Sine Wave Output
- · Compact size for standalone and mounting flexibility
- · Battery Backup & Surge Protected Outlets

SINGLE-PHASE | LINE INTERACTIVE

The UniStar® Smart Business (SB) Touch Screen LOD Line Interactive UPS provides comprehensive power protection in a small and economical package. The UPS prevents data loss and protects electronic equipment, such as POs, workstations, networking devices/VoIP, POS systems, and entertainment systems, from harmful power problems. In addition to protecting against surges and spikes, it also provides pure voltage with built-in AVR stabilizer. The UPS will continue providing clean and stable power to connected equipment while its embedded microprocessor controller guarantees high reliability, perfect for any small office application.

UNISTAR SB 400VA - 2 KVA

- Simulated Sine Wave Output
- All Battery Backup Outlets
- Touch Screen LCD
- Automatic Voltage Regulation (AVR) to correct brownouts and overvoltages without using battery power



SINGLE-PHASE | LINE INTERACTIVE | NETWORK CAPABLE

The UniStar® Smart Business Network (SB-NET) Line Interactive UPS provides server-grade full power protection from power failures, spikes and surges in a small footprint with enhanced output power factor of 0.8. Combining a flexible rack/tower configuration with the easy-shift LCD panel design, this series is perfect for networking, telecom, server and mission-critical applications.

UNISTAR SB-NET 800VA - 3 KVA

- Pure Sine Wave Output
- Battery Backup & Programmable Outlets
- · Multiple communication options
- Universal Tower/Pack Mount
- Hot Swappable battery design
- Automatic Voltage Regulation (AVR) to correct brownouts and overvoltages without using battery power









BATTERY MONITORS

BATTERY MONITORING | WIRELESS | WIRED

Staco Energy offers Battery Monitoring Systems (BMS) that have been designed with the end user in mind. The FirstLine BMS and FirstLine BMS-II allow users to easily access real time data on the health of their UPS, Switch Gear, Generator, or other standby battery system. In addition to providing email alerts and data retention for trend analysis, the systems allow the end user the flexibility to monitor the system via Local Area Networks (LAN) or Wide Area Networks (WAN).



FIRSTLINE BMS

WIRELESS BATTERY MONITORING SYSTEM

- · Ease of installation
- · Alarms via email & dry contact
- · Graphic LCD touch screen
- · Battery cycling data

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





technology. In the event of an AC power failure, a FirstLine® Uninterruptible Power Supply (UPS) will automatically transfer to battery power and continue to provide power without any interruption for the full amount of time you select. When power returns, a FirstLine® UPS will automatically recharge the batteries for the next unexpected power outage or disturbance.





FIRSTLINE XD

10 - 40 KVA **INDUSTRIAL UPS**

- 208VAC
- Available in 208 & 480 Voltages
- · Single Phase or Three Phase Output Configurations Available
- · Offers 50°C rating without derating UPS output
- · Input friendly, low reflected harmonic content
- 5 Year Warranty

FIRSTLINE PLT 10 - 60 KVA

- 208VAC
- Available in 208 & 480 Voltages
- Parallel up to 4 Units
- Compact & Reliable





UNINTERRUPTIBLE POWER SUPPLIES



FIRSTLINE PE

80 - 125 KVA ENERGY EFFICIENT UPS

- 480VAC
- · Unity Power Factor
- > 96.5% Efficiency
- Up to 99% Efficency in ECO Mode
- · Lower initial cost and heat output
- 50/60 Hz Switching Capability
- 4 Year Warranty

FIRSTLINE P 65 - 500 KVA

- 480VAC
- Available in 208 & 480 Voltages
- Up to 98% Efficiency in ECO Mode
- Reliable
- Rexible
- Compact

ALSO AVAILABLE

Precision Power Conditioner and Frequency Converter models



EMERGENCY LIGHTING INVERTERS

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

Our UL-924 Emergency Lighting products offer a wide range of applications from single phase to small and medium 3 phase markets. These products can be configured for always on or always off applications, 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.

UNISTAR SCLI924

350W - 21 KW SINGLE-PHASE

- · Advanced Circuitry and Battery Protection
- Hgh ACto AC Efficiency





FIRSTLINE PLT 924

9 - 54 KW THREE-PHASE

- Advanced Circuitry and Battery Protection
- Hgh ACto AC Efficiency
- · User-Friendly Mimic Panel
- Available in 208 & 480 Voltages

FIRSTLINE P 924

58.5 - 225 KW THREE-PHASE

- · Advanced Circuitry and Battery Protection
- Cost Effective, High Reliability Design
- Supports all connected lighting loads
- Monitoring and Communications
- Available in 208 & 480 Voltages
- Oustomizable Battery Times







POWER CONDITIONERS & FREQUENCY CONVERTERS

THREE PHASE | ELECTRONIC PRECISION POWER CONDITIONER | PARALLELABLE

The FirstLine PPC/FC Series represents the latest in continuos 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 PRECISION POWER CONDITIONER

208VAC 10 - 60 KVA 480VAC 65 - 500 KVA

ELECTRONIC

- ± 2% voltage regulation
- UL Listed
- · Clean regenerated output voltage waveform

FIRSTLINE FC FREQUENCY CONVERTER

208VAC 10 - 60 KVA 480VAC 52 - 400 KVA SOLID STATE

- 60/50Hz Conversion
- ± 2% voltage regulation
- UL Listed
- Clean regenerated output voltage waveform





POWER FACTOR CORRECTION BANKS

THREE-PHASE | OPTIONAL FILTER

Staco Energy Products offers a wide range of StacoVAR Power Factor Correction systems in the form of fixed capacitor banks, PF & PFH Series or switched capacitor banks, PM, PA & PH Series, 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.

PF / PFH

208 - 600VAC | 2,400 - 34,500VAC UP TO 2400 KVAR

FIXED CAPACITORS

- · User-Friendly Mimic Panel
- NEMA 1, 3R, 12 enclosures

PM / PA / PH

208 - 600VAC | UP TO 2400 KVAR

SWITCHED CAPACITORS

- Microprocessor based controller
- Heavy duty capacitors
- · User-Friendly Mimic Panel
- NEMA 1, 3R, 12 enclosures









FIXED UNIT

ALSO AVAILABLE Medium Voltage

2,400 - 34,500VAC



StacoSine Plus

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 Flus 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.

WALL MOUNT & FREESTANDING

208 - 480VAC | 25 - 300 AMPS PARALLELABLE UP TO 1200 AMPS

- Sub-cycle Response
- Biminates 2nd through 51st harmonics
- · Parallelable for additional capacity
- Temperature roll back
- Variable Power Factor and Harmonic Current control



TOUCH SCREEN LCD DISPLAY PANEL







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 ONC, or broadcast Transmitters.

MODULAR POWER CONDITIONING SYSTEM

VOLTAGE REGULATION

- 120-600VAC, up to 2000kVA
- 1% or better Continuous Voltage Regulation
- 97-99% Efficient
- Hexible Design







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 P&D labs. Examples include: Quality assurance labs, circuit breaker testing, HVAC, motor test, VFD, compressor, white goods, and product life cycle testing.

PROVIDER POWER SYSTEM TEST SETS

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

- Precise, accurate voltages available making the PPS design is flexible enough for any electrical testing application
- Fully customizable from standard products
- · Pobust, rugged design for years of trouble free service
- Designed to be easy to use and very operator friendly





OUR CUSTOMERS

STACO ENERGY PRODUCTS HAS HAD THE PRIVILEGE OF SERMING SOME OF THE FINEST COMPANIES IN THE WORLD. WE ARE PROUD OF THE RELATIONSHIPS WE'VE BUILT WITH THESE COMPANIES, AND WITH ALL OF CUR CUSTOMERS.

3M Corporation

AAON Heating & Cooling Products

AO. Smith Corp.

Abbott Laboratories

Acrodyne Communications, Inc.

Amdahl (A Fujitsu Company)

Analog Devices, Inc.

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 Business Machines

Carrier Corporation

ŒS

OtiGroup, Inc.

CNN

Compaq Computer Corporation

COX Cable

Outler-Hammer (Eaton)

Dupont

EDS (Electronic Data Systems)

Bi Lilly Company

ESPN

Exxon Mobil Corporation

FAA (Federal Aviation Administration)

Ford Motor Company

FOX-TV

General Dynamics Corporation

General Bectric Co. General Motors Corp.

Harris Corporation

Hobart Corporation

Honeywell Corporation

IBM Corporation

Illinois Tool Works Inc. (ITW)

Intel Corporation
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. McQuay International

Mobilized Systems, Inc.

Monsanto Company Motorola, Inc.

NASA NBC

NOR Corporation

Nautel, Ltd.

Newport News Shipbuilding

NOAA (National Oceanic & Atmospheric

Administration)

Pacific Cas & Electric Company PepsiCo

Pfizer, Inc.
Philips Medical
Proctor & Gamble Co.
Paytheon Company
Pheem Manufacturing Co.

Richardson Electronics. Ltd.

Pockwell Automation

Shell Oil Co.

Siemens Energy & Automation, Inc.

Texas Instruments, Inc. Toshiba Corporation

The Trane Co.

(American Standard Companies)

Transocean Sedco Forex
Tyco Electronics Corp.
Union Carbide Corp.
Universal City Studios
USX Corp. (Marathon Oll 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 York International Corp. Zenith Electronics Corp.



WE WENT WITH STACOBECAUSE THE TEST STANDS HAD THE CAPABILITY WE NEEDED, THE PRODUCTS HAVE A GOOD PEPUTATION IN THE INDUSTRY, AND A STRONG PERSONAL PELATIONSHIP.

Hunter Mattocks, Director of Operations Development AAON Heating & Cooling Products



STACO SERVICE HELD SERMCE PROGRAM

Staco specializes in providing choice and flexibility by developing tailored solutions for preventive and remedial maintenance services, as well as emergency repairs for all of our products. **Staco Service** is built upon a nationwide network of highly trained and motivated customer support engineers and technicians who can provide professional services and care throughout the life of your equipment.

- Start-Ups
- Preventive Maintenance
- Spare Parts
- Battery Analysis/Refresh/Replacement
- On-Site Training
- Time & Material Services



