

Medical Centers, Hospitals



At Staco Energy, helping our customers to be successful in their business is our mission and what we do best. With wide reaching product offerings, our **tailored solutions** approach to resolving power quality concerns is designed to provide a distinct advantage.

Our products and systems have proven themselves from “simple” installations through the most demanding and complex applications.

Our end users rely on Staco Energy’s agile capabilities and comprehensive solutions

portfolio for the Medical market. From stand-alone, to match-and-line, through integrated equipment, Staco is committed to always placing our customer’s needs first.

Staco delivers value in many ways—from first point of contact responsiveness, to “customer delight” of on-time finished products. By having Staco thoroughly assess a power quality opportunity, our customers benefit in understanding the solution, while reducing risk of additional cost or need for other unplanned equipment. Further,

our ability to ask the right questions and partner with our customers to meet the desired solution, helps to assure both a budget met initial purchase, plus a lower cost of total ownership.

From its inception in 1937, Staco continues to produce “legacy” products, along with the many new offerings which have been introduced to improve electrical power distribution system performance. Our strong emphasis on innovation and new product development continues, making us your preferred **tailored power solutions provider**.

STACO
ENERGY[®]
PRODUCTS CO.



Staco Energy provides low voltage power quality and voltage control solutions, both "off-the-shelf and application engineered. Our experience and design knowledge comprises electrical, electronic and mechanical systems. With this in mind, our customers know Staco can be highly resourceful to meet the most demanding requirements.

New hospital and medical centers, expansions and upgrades are a constant in the healthcare industry. Design of the electrical power distribution system is vital for proper operation of the many life dependent devices and equipment found throughout these types of facilities.

Typical departments and areas of most hospitals include:

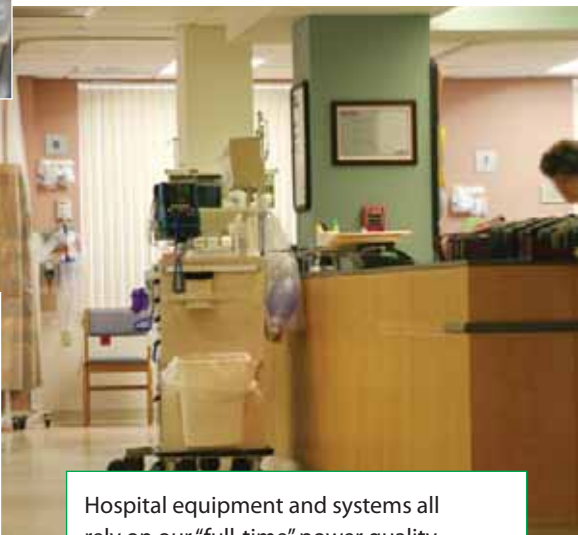
- Emergency Room
- Cardiology
- Intensive Care
- Diagnostic Imaging
- General Surgery
- Maternity and Neonatal Care
- Microbiology
- Neurology
- Nutrition and Dietetics
- Obstetrics and gynecology units
- Occupational therapy
- Oncology, Orthopedics
- Pharmacy

While each of these specialties have their own responsibility, available, quality power is a common element to deliver the services that doctors along with



medical and administrative staff require – and more importantly, the hospitals' patients expect.

Staco understands how crucial "on-line" electrical power is to meeting the needs of healthcare providers. From data centers for patient/HIPAA records, to medical equipment protection and back-up power, through HVAC, security/fire alarm and lighting systems and energy management, Staco has a tailored power solution for you.



Hospital equipment and systems all rely on our "full-time" power quality protection.

- | | |
|---------------------------------------|----------------------------------|
| ■ Variable Frequency Drives (VFD's) | ■ Motors |
| ■ Pumps | ■ Control Panels |
| ■ Motor Control Centers | ■ PLC's |
| ■ Switchgear | ■ Relays |
| ■ Stand-By and Distributed Generation | ■ Data and Communication Centers |
| | ■ Lighting Systems |

An example, sensitive electronic controls can benefit from the installation of single-phase UPS for power protection, while three-phase UPS is ideal for facility and data center needs. VFD's, especially six-pulse drive systems, will have noticeable harmonic reduction and meet IEEE519 recommendations by using active harmonic filters.

STACO ENERGY
PRODUCTS CO.®

Your tailored power solutions provider

Staco Tailored Power Solutions

UNISTAR^{III} tower UNISTAR^C rack

- 1, 2, and 3kVA on-line double conversion true sine wave UPS
- Tower or 19 inch rack configurations
- 120Vac and 230Vac, 50/60hz auto-sensing



FIRSTLINE[®] 3-phase Uninterruptible Power Supply and Emergency Lighting Inverter

- 10, 15, 20, 25, 30 and 37.5kVA on-line double conversion true sine wave UPS
- Central Lighting Inverter: 8, 12, 16, 20, 30kW
- 208, 220 or 480Vac operation at 60Hz



UNISTAR^P

- 6, 8, and 10kVA on-line double conversion true sine wave UPS
- Systems are parallelible up to four systems for either redundancy or capacity
- Tower and 19 inch rack configurations



FIRSTLINE^{OC}

- FirstLine OC (Options Cabinet)
The most comprehensive and flexible power distribution solution available



StacoSINE[®]

Active Harmonic Filters

- Available from 208-480Vac, 600Vac and higher with transformer
- Ratings for 25, 50, 100, 150, 200, and 300 amperes
- Wall mount, free standing, and open-chassis mounted models
- 50/60Hz



StacoVAR[®]

Power Factor and Harmonic Correction

- Three-phase switched systems for dynamic loads and fixed value systems for static loads
- Long life capacitors, operates in up to 10%THD environments
- 208, 240, 480 and 600Vac models available
- Modular design for ease of maintenance and investment protection
- Fixed capacitors, located at motor loads, with optional filters
- Automatic power factor correction systems, with 25, 50, 100, 200kVAR step sizes
- Detuned PFC with iron-core reactors, where higher harmonic conditions are a concern



Voltage Regulation and Power Conditioning



- 10 - 2000kVA three-phase voltage regulators
- 5 - 75kVA single-phase voltage regulators

Staco AVR[™]

Inspiring Our Customers

At Staco, we believe energy management and sustaining resources for environmental improvement are part of our corporate responsibility. We fully support the U.S. Green Building Council, LEED (Leadership in Energy and Environmental Design) and ENERGY STAR programs. Further, virtually all of our product technologies are designed to promote energy efficiencies and comply with applicable RoHS directives (hazardous substances). Plus, many of our products can help reduce CO₂ pollution derived from electric power generation. With the power of human energy, Staco will continue to enhance and preserve our natural assets.



About Staco Energy Products Company

Since 1937, customers worldwide have been relying on Staco Energy Products Company to deliver voltage control and power quality solutions tailored to their needs.

As a leading power quality resource, we offer our customers world-class support; from our thorough applications assessment, to our ability to design and deliver a solution that is tailored to the specific needs of our customers; through delivery and commissioning.

Our professional, factory trained service team is in place to ensure that our customers' revenues are protected, and their investment provides them with many years of trouble free operation.

Staco develops total power solutions for OEM and end user applications.

We offer a wide array of power quality products, including:

- **Uninterruptible Power Supplies**
- **Power Conditioners**
- **Voltage Regulators**
- **Power Factor Correction and Harmonic Mitigation**
- **Active Harmonic Filters**
- **Variable Transformers**
- **Custom Engineered Test Sets**



Staco Energy Products

Voltage Control	UPS	Power Factor & Harmonics
Staco AVR Staco VT	FIRSTLINE UniSTAR	StacoVAR StacoSINE



Your tailored power solutions provider

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