

Products & Services That We Offer

Uninterruptible Power Supplies

- ▶ Single phase, 3 phase units
- ▶ New and refurbished
- ▶ Parts
- ▶ Installation and Startup Services



Batteries

- ▶ UPS Batteries, Lithium-ion, and VRLAs
- ▶ Installation, removal, and disposal services
- ▶ Load-testing services

Power Distribution Units

- ▶ Configurations including rackmount and stand-alone
- ▶ Metered Power Strips

Generators

- ▶ Residential, Commercial or Industrial Offered
- ▶ Maintenance Service Contracts Offered
- ▶ Installation
- ▶ OEM Authorized Service Provider



Computer Room Air Conditioning Units

- ▶ New and Refurbished
- ▶ Installation and Turnkey Services
- ▶ Energy-Efficient Upgrades



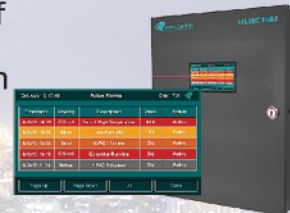
Professional Services

- ▶ Preventive Maintenance Programs
- ▶ Full Service Agreements
- ▶ Project Management – PMP Certified
- ▶ End-to-End Project Management
 - Assessment
 - Design
 - Implementation



Remote Monitoring & Control Systems

- ▶ Remote data center and facilities management monitoring
- ▶ Energy management software
- ▶ Remote monitoring of
 - DC Power
 - Electrical Distribution Systems
 - HVAC
 - PDUs
- ▶ Analysis and reporting
- ▶ Data Center Infrastructure Management



Portable Quiet Generators

- ▶ Output voltages 110-120vac & 220-240vac (14vdc, 28vdc, & 48vdc)
- ▶ Rugged case provided for the ultimate protection
- ▶ 700W AC power Output
- ▶ Weighs < 40 lbs
- ▶ Quick battery recharge time



Data Center Racks

- ▶ Servers – Rack mount or blade servers
- ▶ Rack Mount UPS or rPDUs
- ▶ Networking or Telephony Equipment

Electrical Services

- ▶ All electrical work above and beyond the listed items in this brochure
- ▶ Testing and troubleshooting
- ▶ Qualitative – Power Quality Studies
- ▶ Site survey and reports

Data Center Relocation Services

- ▶ Complete adds or moves
- ▶ Changes or upgrades
- ▶ End-Of-Life equipment, disposal & recycling



Data Center Services

- ▶ Install or upgrade of raised flooring tiles
- ▶ Inspections of current air ventilation issues
- ▶ Cable Management – Labeling, tracing
- ▶ Circuit Tracing & Load Measurement

Why Consider Improving Power Factor?

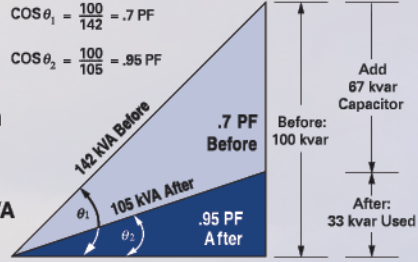
- ▶ Lowers your electricity costs
- ▶ Increase KVA capacity (increase the KW used for the same KVA)
- ▶ Improve voltage regulation
- ▶ Allow for size reductions in cables, transformers and switchgear
- ▶ Allow for expansion without additional electrical improvements



Example:
If you are using 100 KW and have a power factor of .70 when improved to .95:

$$\cos \theta_1 = \frac{100}{142} = .7 \text{ PF}$$

$$\cos \theta_2 = \frac{100}{105} = .95 \text{ PF}$$



Before and After Capacitor Installation

100 KW at .70 PF = **142 KVA**
100 KW at .95 PF = **105 KVA**

Return of Investment

Using an example, where KVA is the primary billing component, **if billed \$11.22 per KVA:**

100 KW at .70 PF = 142 KVA, or **\$1,593**

100 KW at .95 PF = 105 KVA, or **\$1,178**

This represents a **monthly savings of \$415**, or **\$4,980 annually**. If you assume equipment cost of \$5,600 (not including installation), this example shows an ROI of about **14 months**. After the payback period, there can be an ongoing **26% savings** for this customer.

Most Electric Utilities charge fees if the power factor falls below .9pf. These fees/fines would be removed, and if added to ROI would pay also for any installation of Power Factor Correction equipment.

STACO ENERGY PRODUCTS CO.

Power Triangle and information provided courtesy of Staco Energy Products Co. ©2014

Saves You Money

Who We Work With

APC/Schneider Electric/MGE
Vertiv/Liebert/Emerson
Eaton/Powerware
C&D MaxRate/Dynasty
EnerSys/Yuasa
East Penn/Deka
Leoch CSB
MPI Narada Powerside
Quest Controls TD SYNTEX
Generac Staco Energy



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