



# Power Factor Correction

## PF Guard™ Capacitor Bank

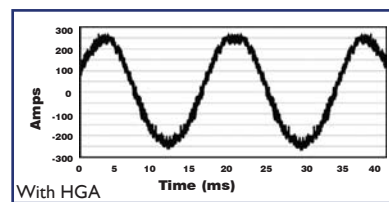
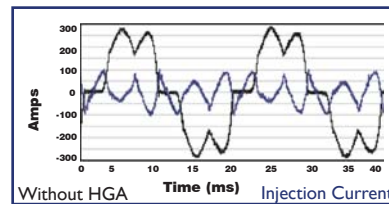
- Automatic Cap Bank prevents leading power factor and reduces apparant power drawn from the utility
- Returns power factor to near unity
- Includes a detuning reactor to mitigate resonance issues



# Harmonic Solutions

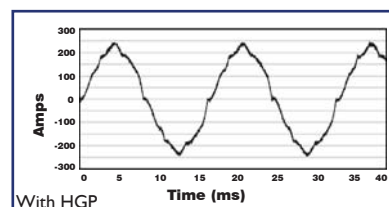
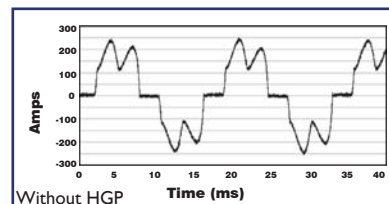
## HarmonicGuard® Active (HGA) Filter

- Save money and space: a single bus-applied HGA can correct harmonics for multiple loads
- Reduce current harmonic distortion to less than 5% allowing you to meet IEEE-519 specifications
- Easily monitor performance & remotely control the HGA with one of our communications options
- Patented Master - Master operation allows multiple filters to run in a more robust closed-loop mode



## HarmonicGuard® Passive (HGP) Filter

- Meets IEEE-519 requirements by limiting current harmonic distortion to less than 5% with background voltage distortion as high as 5%
- Internal fusing prevents capacitor damage
- 100kA SCCR simplifies system acceptance
- Available with a wide range of options to suit any application
- Generator compatible



## KDR/KLR Line Reactor

- Extend your drive uptime by reducing the likelihood of the drive tripping
- Protect other equipment on the same bus from operational issues caused by voltage distortion
- Reduce overheating issues due to harmonic currents





### HarmonicGuard® Solution Center

- TCI's expertise in an easy-to-use online sizing tool
- Apply multiple technologies to compare their impact on your system THD & power factor
- Determine IEEE-519 compliance



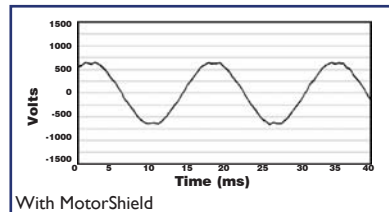
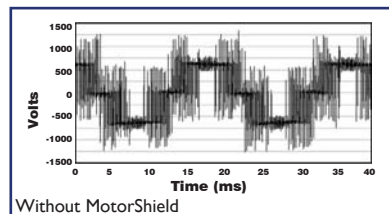
HARMONICGUARD®  
SOLUTION CENTER

## Motor Protection Solutions

### MotorShield™ Sinewave Output Filter

(for cable leads up to approximately 15,000 ft.)

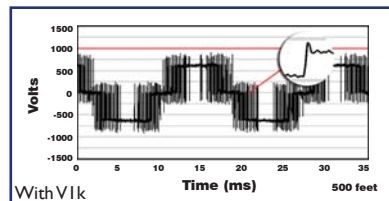
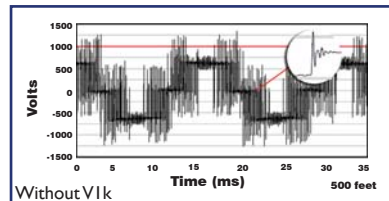
- Protect your motor and cable runs by reduction of vibration and heat to improve system performance
- Protects older and non inverter duty motors from the harmful effects of voltage spikes caused by VFDs
- Reduce audible motor noise
- Ideal for protecting lead insulation in downhole pumping applications



### Vik dv/dt Output Filter

(for cable leads up to approximately 1,500 ft.)

- Extend the life of your motor and cable by reduction of harmful voltage spikes due to dv/dt
- Protect cable runs and reduce motor heating, noise and vibration
- Prevent motor failure with protection against motor insulation breakdown



## High Frequency Noise Solutions

### KRF EMC Filter

- Filter EMI/RFI noise caused by power switching devices
- Prevent interference between automated lighting circuits, security cameras, and other critical electronics on your system

