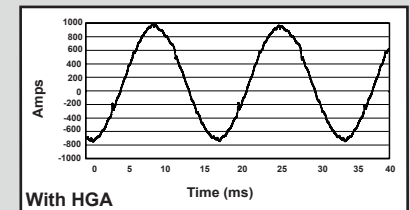
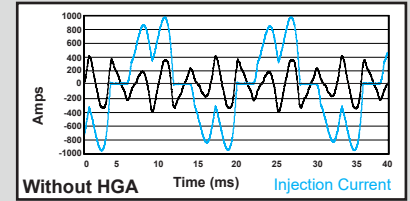
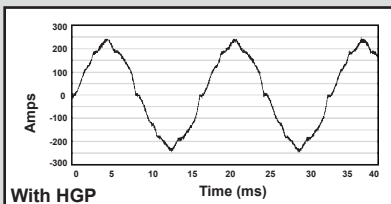
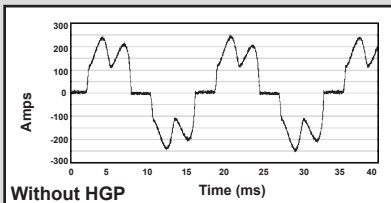


Harmonic Filters

HGA HarmonicGuard® Active

- Meets the most stringent IEEE 519-2014 requirements
- TDD reduction to less than 5% at full load
- Power factor correction

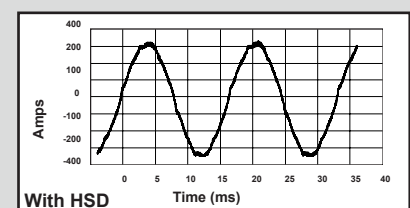
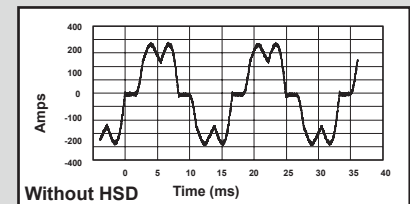


HGP HarmonicGuard® Passive with PQconnect

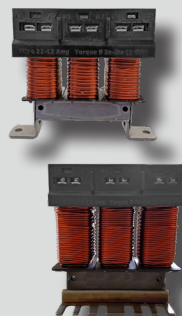
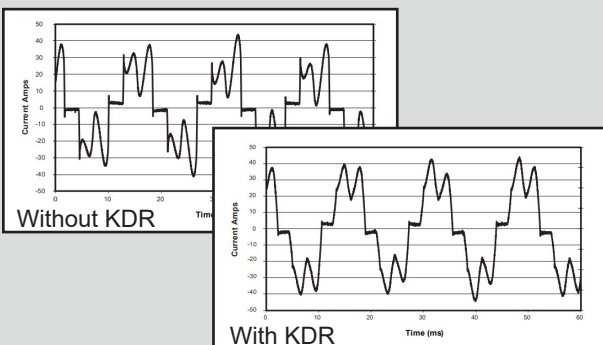
- PQconnect allows for intelligent monitoring and control
- Limits total harmonic current distortion down to 5% over the widest range in the industry
- Generator compatibility with intelligent control
- IEEE 519-2014 compliant
- Low capacitance version (HGL) available

HSD HarmonicShield® with PQconnect

- PQconnect allows for intelligent monitoring and control
- 5% iTHD Performance over a wide load range
- UL 508 Listed; IEEE 519-2014 compliant
- Cost effective, maintenance-free filter design



Line and Load Reactors



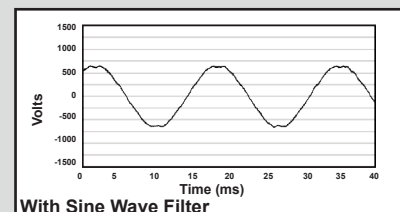
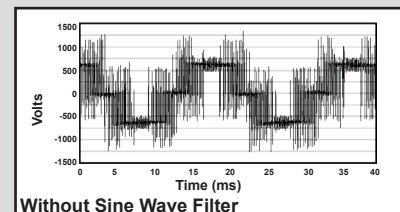
KDR/KLR Line Reactor

- Helps to meet IEEE 519-2014 requirements
- Extends drive uptime by reducing the likelihood of drive tripping
- Drive lifetime warranty
- Reduce overheating issues due to harmonic currents



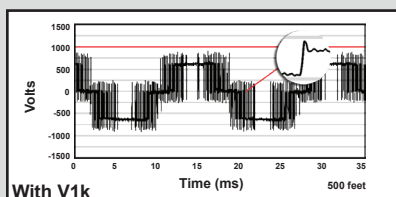
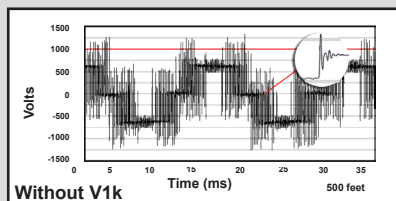
KMG MotorGuard with PQconnect Sine Wave Filter

- PQconnect allows real-time access to waveforms and SCADA systems performance
- Less than 5% THVD performance
- Eliminates high dV/dt voltage spikes
- Reach long lead lengths up to 15,000 ft for specific applications



MSD MotorShield™ Sine Wave Filter

- 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
- Ideal for protecting lead insulation in downhole pumping applications



V1K dV/dt Output Filter

- Reduces Common Mode by a minimum of 30%
- Reduces motor heating, noise, and vibration
- Limits voltage spikes to below 1,000 V for applications with lead lengths up to 1,000 ft on 480 V systems



Other Product Offerings



KRF 3-Phase EMC Power Line Filter

- Reduces interference
- Protects sensitive equipment
- Eliminates drive cross-talk
- Meets FCC Regulation 15, Sub part J

PFG PF Guard™ Capacitor Bank

- Automatic capacitor bank prevents leading power factor and reduces apparent power drawn from the utility
- Returns power factor to near unity
- Includes a detuning reactor to mitigate resonance issues

