

Power Quality Solutions

Low Voltage, Medium Voltage & High Voltage

Harmonic Filters

Reactors	LV, MV, HV	Line reactors, inverter load reactors, tuning reactors, detuning reactors, and inrush current limiting.
Low Pass Harmonic Filter	LV, MV	Filters all harmonic frequencies, connects in series with load. Guaranteed results.
Tuned (Fixed Capacity)	LV, MV, HV	Filters specific (1 or more) harmonics for relatively constant loads.
Tuned (Automatic)	LV, MV, HV	Filters specific (1 or more) harmonics for varying loads. Switches in and out as demanded by actual loading conditions.
SmartVAR™ Dynamic Harmonic Filter	LV, MV	Rapidly adjust filtering to rapidly changing loads. Performs zero cross switching in less than 10msec.
Active Harmonic Filter	LV	Electronically recognizes harmonic current and provides equivalent cancellation current to achieve less than 5% current distortion.
12 & 18 pulse Converter kits	LV	Upgrades a standard 6-pulse rectifier to either 12-pulse or 18-pulse for low harmonic distortion.
3rd Harmonic Blocking Filter	LV	Provides maximum attenuation of 3rd harmonics and attenuates other harmonics up to the 9th harmonic.
D-G Interconnect Filter	LV, MV	Filters for distributed generation equipment. Harmonic filter for intertie requirements or PWM inverter sinewave conversion filters.

Power Factor Correction

Fixed Capacitor Bank	LV, MV, HV	Improves power factor by adding fixed amount of KVAR to the system.
De-Tuned Capacitor (Fixed)	LV, MV, HV	Improves power factor and protects capacitor from harmonics, inrush current and voltage transients.
Motor PFC Capacitors	LV, MV	Connected at individual motors to achieve desired PF and reduce motor current.
Automatic Capacitor Bank	LV, MV, HV	Controls power factor in systems where loads and reactive power demands change periodically.
De-Tuned Capacitor (Auto)	LV, MV, HV	Improves power factor and protects capacitor from harmonics, inrush current and voltage transients.
Hybrid Capacitor Bank	LV, MV	Combines fixed capacity bank with an automatic bank to maintain desired PF at all load conditions.
SmartVAR™ Dynamic Capacitor Bank	LV, MV	Maintains desired power factor for rapidly changing reactive power demands. Performs zero cross switching in less than 10msec.
Active Filter	LV	Uses IGBT technology to maintain desired power factor up to 0.98.

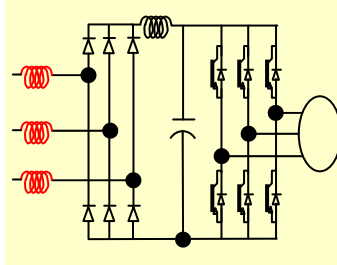
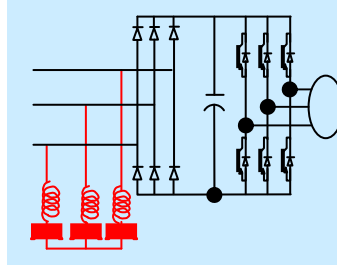
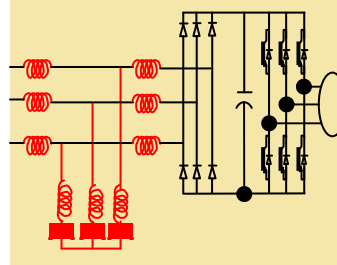
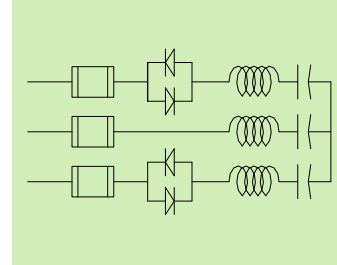
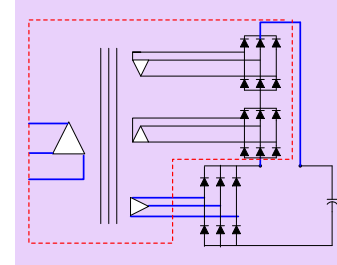
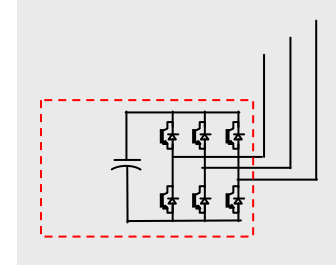
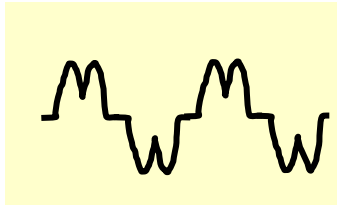
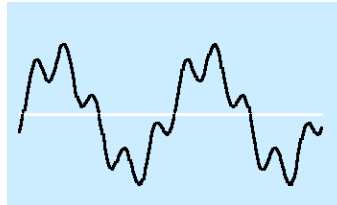
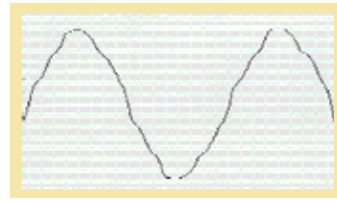
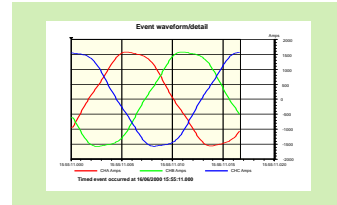
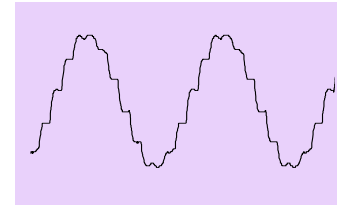

Inverter Filters

Sine Wave Filter	LV, MV	Converts PWM voltage waveform to a sine wave.
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Harmonic Mitigation Solutions

That solve harmonic distortion right at the source!

POWER QUALITY

Type of Solution	Harmonic Mitigating Reactor	Tuned 5th Harmonic Filter	Low Pass (Wide Band) Harmonic Filter	Dynamic Harmonic Filter	12 or 18 Pulse Rectifier Conversion Kit	Active Harmonic Filter
Configuration						
Current Waveform						
Harmonic Current Distortion	35% to 45% THD-I	15% to 25% THD-I	5% or 10% THD-I	15% to 25% THD-I	5% to 10% THD-I	5% THD-I
Basic Product Photo	