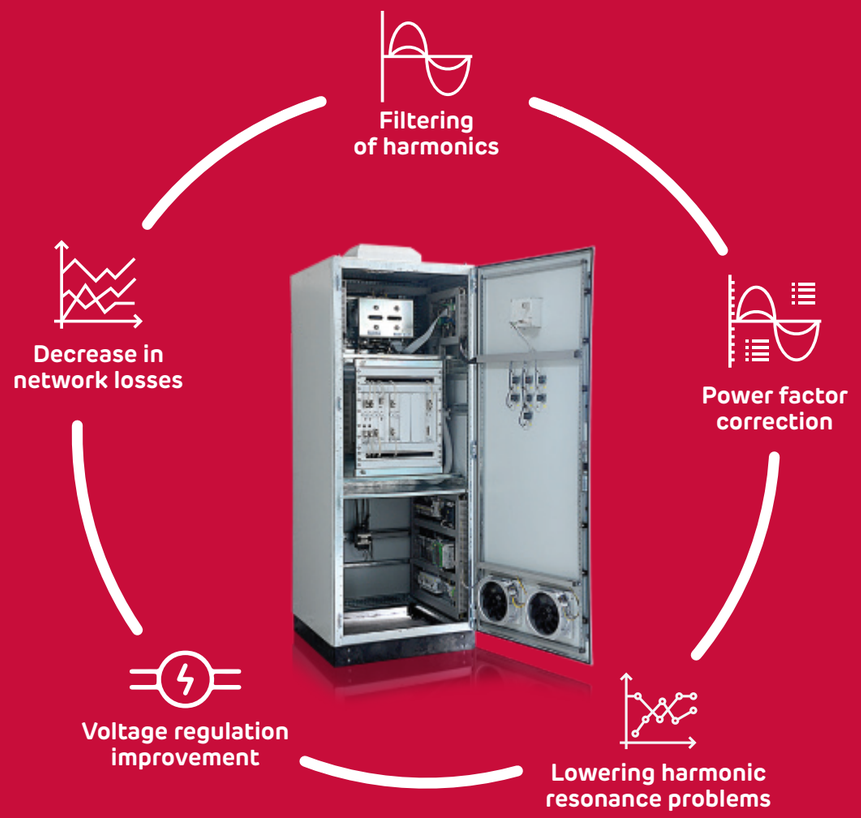
Exact Technology • Exact Solution • Exact Quality



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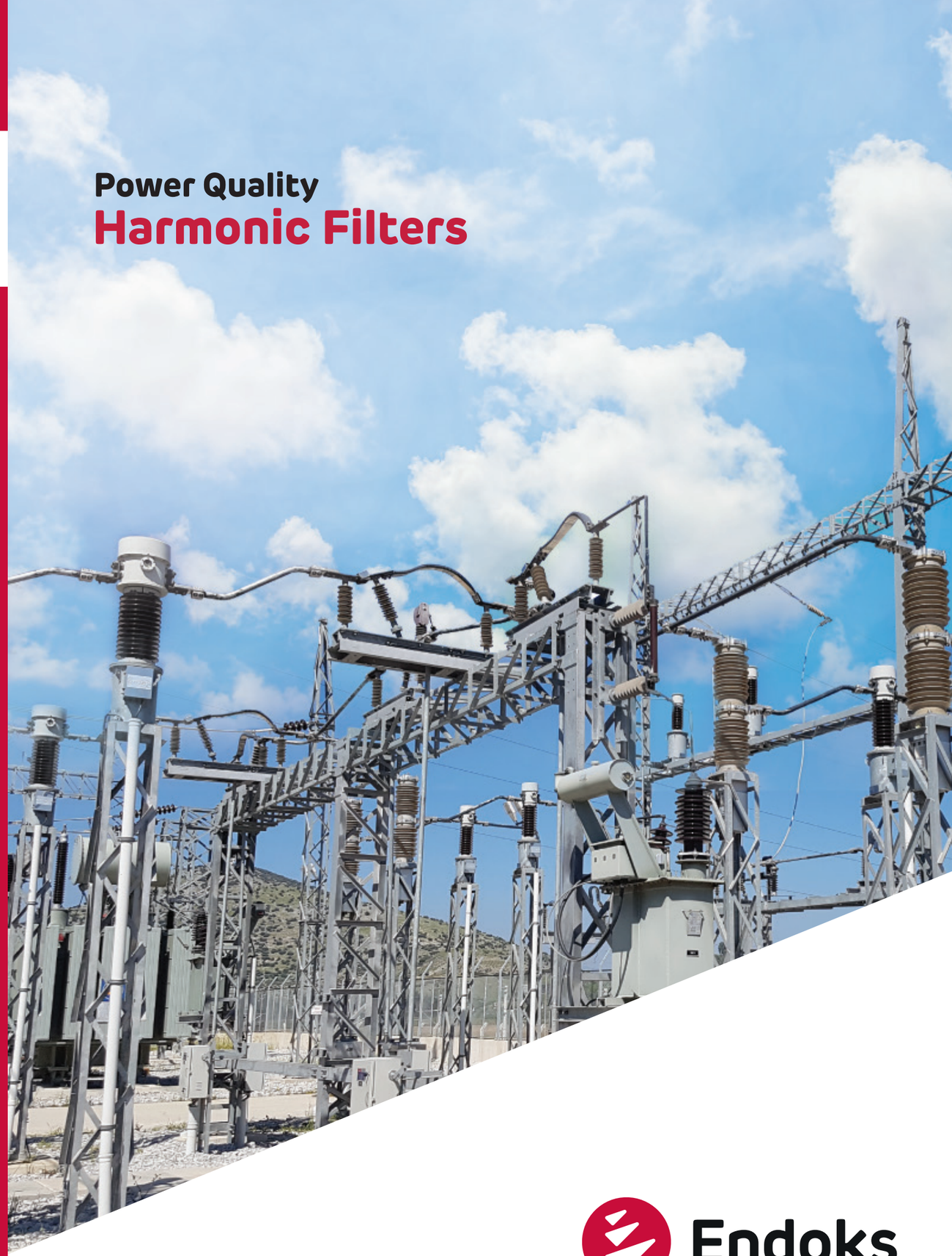
Power Quality
Harmonic Filters



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Endoks | Harmonic Filters

Active and Passive Harmonic Filtering System

High-quality, specific and cost-effective solutions for reactive power compensation and harmonic problems of conventional loads.

Passive Filters

Primary Features

- Filtering of harmonics
- Power factor correction
- Lowering harmonic resonance problems
- Voltage regulation improvement
- Decreasing network losses

Application Areas

- Transmission and Distribution Systems
- Metal Industry
- Mining Industry
- Textile Industry
- Commercial Facilities

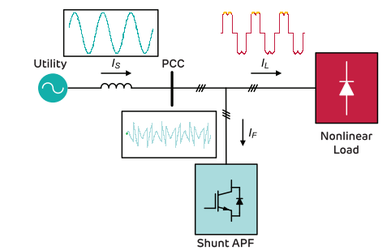
Benefits

- Formed from the combinations of passive elements – capacitors, inductors, resistors.
- Low cost solution for bulky reactive power compensation and harmonic filtering.
- Limited harmonic filtering performance.
- Detailed system study for proper operation.

Active Power Filters How it works?

Active Power Filter (APF) acts as a harmonic source, which measures the harmonic content of the load current and injects the opposite of it on a real time basis, thus makes the current waveform a pure sinusoidal on the source side.

Fundamental Operating Principle



Active Power Filters

Primary Features

- Filtering of current harmonics
- Damping of voltage harmonics
- Harmonic resonance suppression
- Power factor correction
- Load balancing

Application Areas

- Distribution Systems
- Textile Industry
- Paper Industry
- Automotive Industry
- Commercial buildings; Banks, Hospitals, Shopping Centers, Hotels, Data Centers etc.

Benefits

- Superior power conditioning device for the compensation of harmonics and power quality caused by reactive power.
- VSC based power circuit topology.
  - Current harmonic compensation.
  - Voltage harmonic damping.
  - Power system resonance prevention.