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**Schneider**  
Electric

# Power Quality Correction Solutions

## Selection Guide for Mitigation Equipment

### Power Quality Solutions

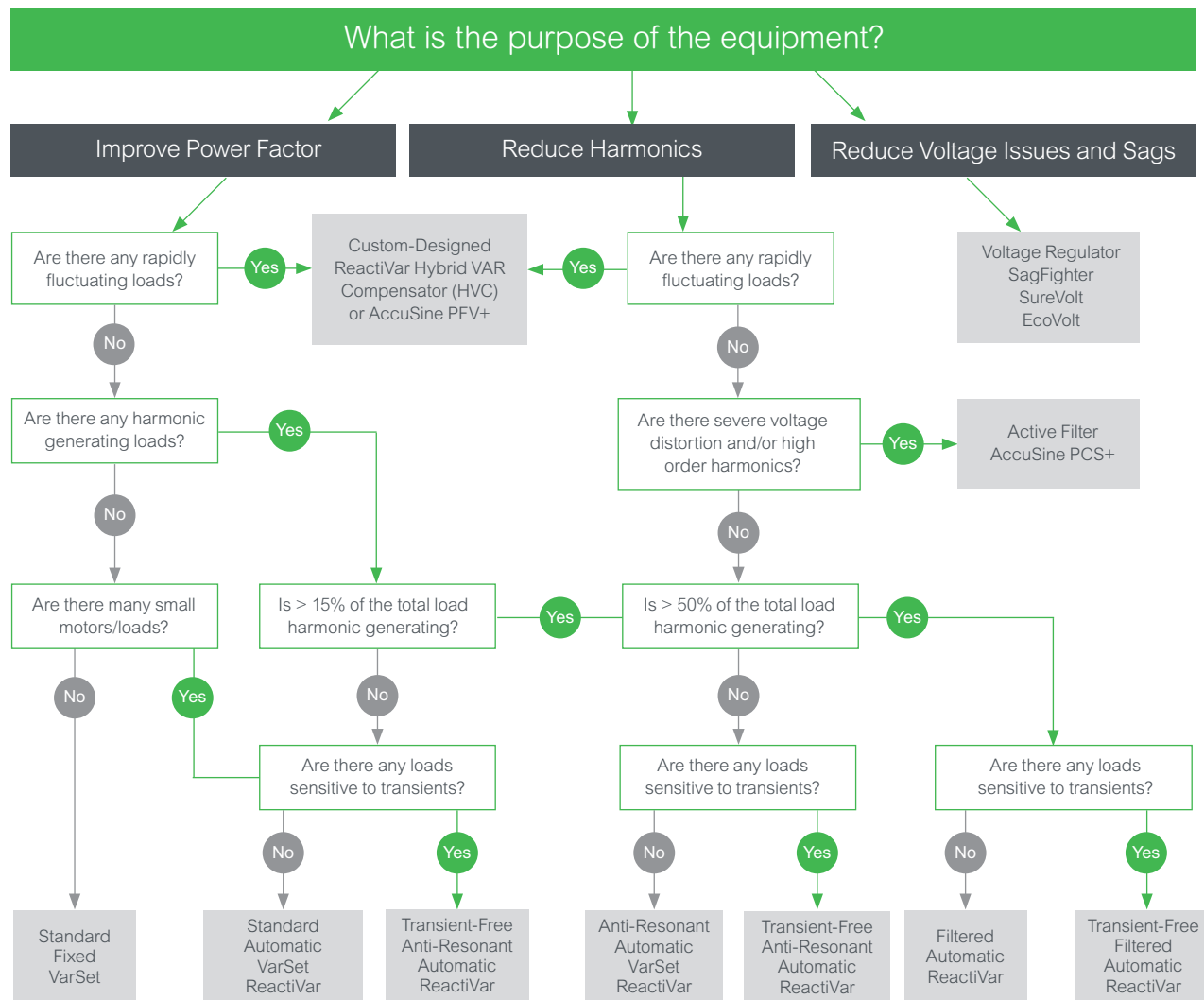
Today, with the proliferation of harmonic generating loads such as variable frequency drives, soft starters and welders, applying the proper power factor correction and harmonic filtering equipment is crucial and can prevent misapplication problems.

As a leader in the field of power quality correction, Schneider Electric offers the products and services needed to ensure that the most reliable and cost effective solution is applied within your facility.



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Use the chart below to help choose the right power quality mitigation equipment for your facility.



A complete range of power quality correction products for any application

## SureVolt™ Automatic Voltage Regulator

Provides continuous power conditioning and broad range of protection to guard against voltage fluctuations that can cause issues with your equipment and cost you money in damages and lost productivity. Delivers clean power, keeping you up and running with maximum efficiency. The SureVolt provides high overload capacity for loads with large inrush-current requirements. At the same time, it provides consistent voltage regulation and fast correction without regular maintenance or moving parts.





## SagFighter™ Active Voltage Conditioner

Protect critical production equipment against random voltage sags typically caused by transmission line disturbances or weather related events. The SagFighter active voltage conditioner uses ultrafast correcting technology to ride through deep voltage sags common to both urban and remote industrial areas. Unlike computer-grade products or uninterruptible power supplies (UPS), the SagFighter is designed for frequent high inrush current and low power factor loads without the need to oversize the product.



## EcoVolt™ Voltage Optimizer and Automatic Voltage Regulator

Optimize and regulate voltage right at the point of demand. The EcoVolt is designed to monitor incoming voltage, correct three-phase unbalance, protect against electrical events, and optimize voltage to match the demand of the load exactly, regardless of location, load, or line condition. Achieve electrical savings, reduce carbon footprint, and protect and extend life of equipment.



## VarSet™ Low Voltage Capacitor Banks

Compensating for reactive power and harmonic distortion with VarSet capacitor banks is an easy way to quickly maintain your facility's power factor at an ideal level for maximum system efficiency and cost reduction. Designed for easy installation, VarSet has a small footprint, providing you with maximum power conditioning and reliability while saving valuable space. This complete range of wall-mounted capacitor banks for fixed and automatic compensation helps to ensure that your power factor is corrected and your electrical network is delivering optimum power.



## AccuSine+ Active Filters

AccuSine™ PCS+/PFV+ active filters provide a simple and effective way to mitigate harmonics and reduce process related voltage fluctuations. Improve electrical network reliability and system capacity while reducing operating costs with one, simple solution. This effective and flexible solution for reactive current optimization can compensate an entire network or specific loads.



## ReactiVar AV5000 Standard Automatic Low Voltage Capacitor Banks

Ideally suited for centralized power factor correction in applications where plant loading is constantly changing. An advanced power factor controller switches capacitor modules to match the load fluctuation to maintain a target power factor. It is a flexible and effective reactive power compensation system in low voltage networks where current and voltage harmonic distortion levels are minimal.



## ReactiVar AV6000 De-tuned Automatic Capacitor Banks

The AV6000 anti-resonant power factor correction systems provide power factor correction in electrical distribution networks where moderate harmonic content exists. Assemblies include custom designed iron-core reactors in series with three-phase heavy duty capacitor modules.



## ReactiVar AV7000 Filtered Automatic Capacitor Banks

The AV7000 passive harmonic filter systems are specifically designed for harmonic filtering with power factor correction as a secondary benefit. Ideal for industrial networks with variable load and high harmonic content.



## ReactiVar AT6000 and AT7000 Transient-free Reactive Compensation System

Transient-free reactive compensation (TFRC) systems are suitable for nearly all electrical networks and are ideal to correct poor power factor in electrical networks with a high concentration of electronic loads. This system features quick response to load fluctuation and transient free switching and works well for sensitive networks. Depending on the level of harmonic producing devices on the network, two TFRC systems are available: AT6000 Anti-resonant/De-tuned System and the AT7000 Filtered System.



## ReactiVar™ Hybrid VAR Compensator (HVC)

ReactiVar HVC provides real-time power factor correction, voltage support, and harmonic suppression in networks with highly cyclical load profiles. The HVC system mixes fixed banks of standard, tuned, or de-tuned capacitor banks and electronic VAR compensation to provide you with ultrarapid response and infinitely variable kVAR control never before seen in a power factor correction product. Specifically designed for the instantaneous support required by welding equipment, the ReactiVar HVC eliminates voltage sags and flicker while increasing system capacity, providing energy savings, and improving weld and final product quality. Can be applied in low- and medium-voltage electrical distribution networks.



Learn how to correct power quality issues  
to improve business performance, email  
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