

Voltsiv Active Harmonic Filter



IEEE 519

Harmonic Control in Electric

Power Systems

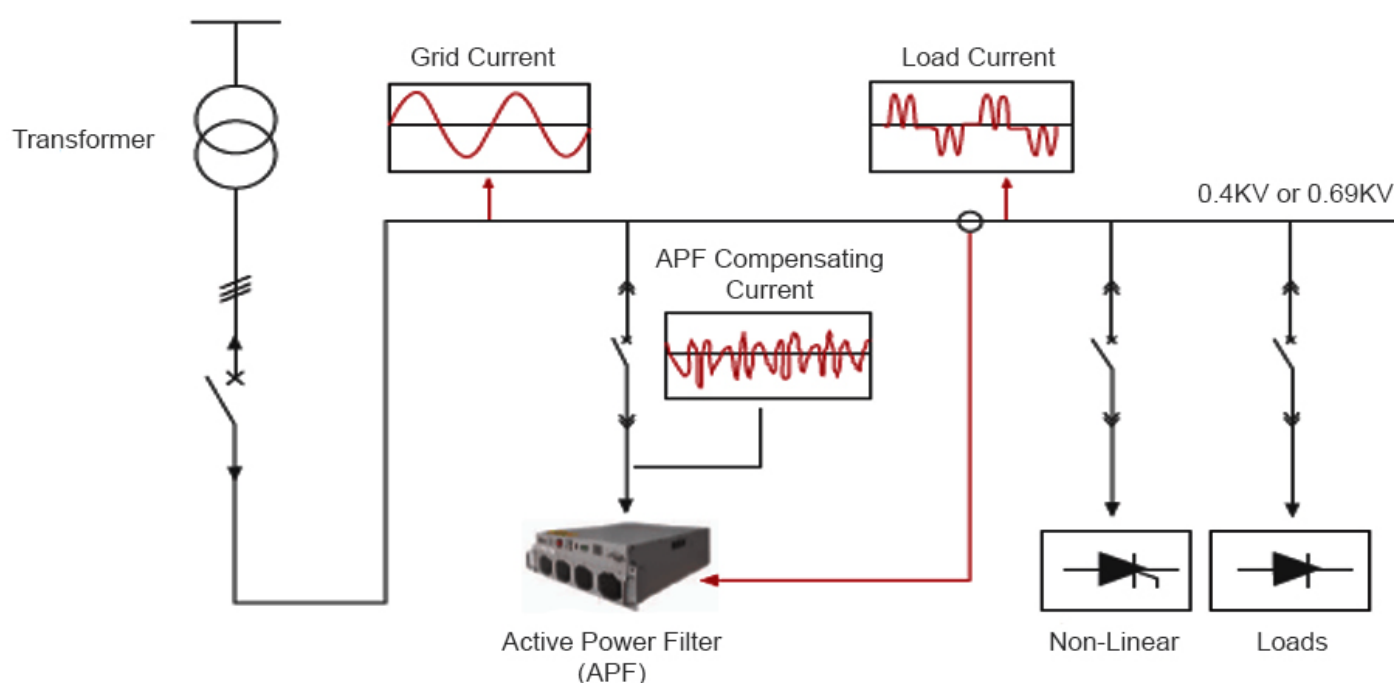
Guaranteeing Safe Operation Improving Energy

Efficiency



Active harmonic filters are parallel filters (which means the Load current doesn't go through the filter) that are used to reduce, or mitigate, harmonics to tolerable levels as defined by IEEE-519. These are Active Front End IGBT based topologies connected to the mains, to filter (or clean) the current wave by injecting inverse currents to cancel out the undesired harmonic components. Depending on the harmonic content, the load variation and budget it might be better to go in for a Hybrid Filter.

Active filters can be parallel to achieve the compensation required. Trinity active harmonic filters provide a solution for real-time cancellation of harmonic distortions created by non-linear loads to ensure compliance with IEEE 519, G5/4 and other power quality standards and recommendations. Trinity active harmonic filters are a versatile solution, easily tailored to deliver power factor improvement, voltage variation control, flicker mitigation and load balancing functionality.



DYNAMIC COMPENSATION HARMONIC - Active Harmonic Filter can realize 2nd to 50th ,harmonic compensation

Intelligent Fast Fourier Transform - One of the biggest characteristics of Active PQ solution is to use information technology to manage energy.

Earliest ADOPTER - 3-level Topology One more output level, less ripple current content

Modular design - Ultra-compact design, wall and rack-mounted structure and fine capacity distribution can fully meet customers' need

independent air duct design - Upper and lower layer design, IGBT heatsink and inductor, which account for most heat of AHF, are concentrated in the lower layer

Voltage - 400V/480V/600V/690V - 3 Phase , 3 Wire /4 Wire Rated

Product Range : 5A , 10A,15A,25A,35A,50A,60A,75A,100A,150A,250A,300

Higher ratings can be offered on demand with parallel configuration

Plug suite - Assist customers to build their own plug cabinet Voltsiv can offer AHF unit with plug suite,

Excellent reactive compensation: High speed, Precise ($-0.99 \leq \text{PF} \leq 0.99$), Step-less, Bi-directional (capacitive and inductance) compensation.

