



KV Energy  
Revenue LLP

The Complete Power Solution

## Harmonics Mitigation Technique



| Specifications                     | Active Harmonic Filter                    | Passive Harmonic Filter |
|------------------------------------|---|-------------------------|
| Use of Tuned-Detuned Reactor       | No  | Yes                     |
| Resonance Issue                    | No  | Yes                     |
| Harmonic Order Attenuation         | Any Harmonic up to 50 <sup>th</sup> Order | Fixed Harmonic only     |
| Size                               | Small                                     | Large                   |
| Weight                             | Low                                       | High                    |
| Humming Sound                      | Negligible                                | High                    |
| Increase in Current                | No Risk                                   | Risk                    |
| Risk of Fire/Blast                 | No Risk                                   | Very High               |
| Harmonic current control           | Possible                                  | Cannot Possible         |
| Frequency variation effect         | Not affected                              | Affected                |
| IEEE 519 Harmonic Standard Limits  | Satisfied                                 | Unsatisfied             |
| Future Expansion                   | Possible                                  | Not Possible            |
| Change in Existing APFC Components | Not Required                              | Required                |
| Cost                               | High                                      | Medium                  |
| Energy Savings                     | Considerable                              | Negligible              |
| Live Parameter Monitoring Display  | Available                                 | Not available           |
| True Power Factor control          | Possible                                  | Not Possible            |
| User Interface                     | Panel Display & Comm. Port                | Not Available           |

*“Clearing the Path to Power Purity”*

*Active Harmonic Filter for Unmatched Performance”*