

## DIGITALLY CONTROLLED ACTIVE HARMONIC FILTER



The **IGBT Based Active Harmonic Filter** is equipment is designed to solve the faults may occur in a Four wire, Three Phase Installation.

### The functions include

- The Harmonic filtering
- Phase current balance
- Power Factor Correction

### Applications

This is the ideal solution for installation with large amount of the Single-phase and Three-phase loads generating harmonics such as Computers, UPS, Lights, Lifting Equipment, Rectifiers and VFD's.

### Advantages

- Harmonic filtering
- Power Factor Correction
- Real time filtering & Compensation
- Filter all harmonics up to 50th
- Flicker compensation/ Active peak loading
- Network impedance does not affect the filtering result



### Technical Data

<b>Power Supply Voltage</b>	360 - 690 V
<b>Function</b>	Correction of 2 <sup>nd</sup> to upto 50 <sup>th</sup> Harmonics Current unbalance Reactive Power

Other Voltage ratings also available as per requirement.

### The Ideal Customer

All Industries having Harmonics generation  
Companies with fast-changing loads  
(Welding machines, Lift / Escalator manufacturers)  
Wind Parks & Power Utilities  
Multi-floor buildings & Hospitals

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## Rating and Specification

Rating of Active Filter	30 AMP	60 AMP	100 AMP	150 AMP	200 AMP	300 AMP
Input Voltage Rating	400 V, 3 Ph+ N(+10%,-15%)					
Harmonic Filtering	Non Zero sequence 2nd to 50th harmonic compensation, (Any 20 Harmonics individually selectable ) Attenuation ratio up to 96%					
Power loss in filter	< 3%					
Enclosure Protection	IP 40 (IP 41 Optional)					
Approx Weight	120 Kg	180 Kg	285 Kg	285 Kg	380 Kg	600 Kg
Installation	Floor/ Wall Mounted		Floor Mounted			
	Cable entry from Bottom, Front side (Top entry optional)					
Acoustic Noise Legal	< 65 dBA @ 1.0 meter (Ref. ISO 3746)					
Operating Temperature	0 to 40°C					
Relative Humidity	Up to 95% (Non-condensing)					
Interface (Optional)	Remote monitoring through MODBUS, SNMP, Web Browser , Ethernet based monitoring through AHFMON, LIFENET					
Standards	Meets IEEE 519 for compensated Harmonic , IEC/ EN 62040-2 Category C3 , EN 50178					
Potential Free Contacts	Filter trip and Filter ON					
Dimensions in mm (W x D x H) + Plinth	600 x 350 x 800 + 100	800 x 600 x 1000 + 150	800 x 600 x 1600 + 150	800 x 600 x 1600 + 150	On Request	1200 x 900 x 1600 + 150
Current Transformer	500 A : 5 A 15 VA, Class 1 With short link	1000 A : 5 A 15 VA, Class 1 With short link	3000 A : 5 A 15 VA, Class 1 With short link	3000 A : 5 A 15 VA, Class 1 With short link	On Request	5000 A : 5 A 15 VA, Class 1 With short link

### Note :

- Other voltage rating available on request.
- 3 Phase/ 4 wire filters are available for zero sequence triple Harmonic Compensation