



ACE Active Harmonics Filters

Features:

1. Shunt Active Harmonic Filter is an IGBT PWM Converter which dynamically conditions your current distortion (THDi) less than 5 mSecs.
2. Distortion Factor i.e. THDi = KWH/(Power Factor * KVAH)
3. Reduction harmonics can lead to unity power factor.
4. No burning of Neutrals – Reduction in I²R Losses.
5. Reduction of transmission losses.
6. Shunt Active Harmonic Filter results into THDi < 10%

Technical Specifications:

Technology	IGBT PWM Converter Based
Type	3P3W System
Input Supply	3PH – Balanced – 415V AC + 10% -20%
Frequency	50Hz ± 3Hz
Output Load Type	3PH – Balanced – 415V AC + 10% -20%
Maximum Compensation Current	Upto 200A - Can be increased *
De-rated Compensation Current	15 %
Maximum Heat Loss	Max 20 watts/Ampere
Switching response time	<5 mSec
Cooling	Forced Air Cooling
Display	LCD Panel Meters
Storage Temperature	+10°C to +65°C
Operating Temperature	+10°C to +50°C
Protection Index	IP20
Reference Standard	IEEE 519-1992

* = Depending on the availability of Power rated semiconductors devices.

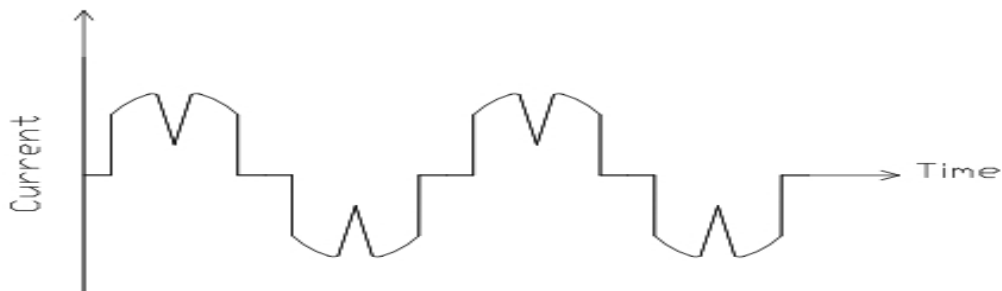
Note:

1. All Shunt Active Harmonic Filters can also be customized and can be paralleled as per requirement and specific correction.
2. Customization as per customer requirement is our specialty.

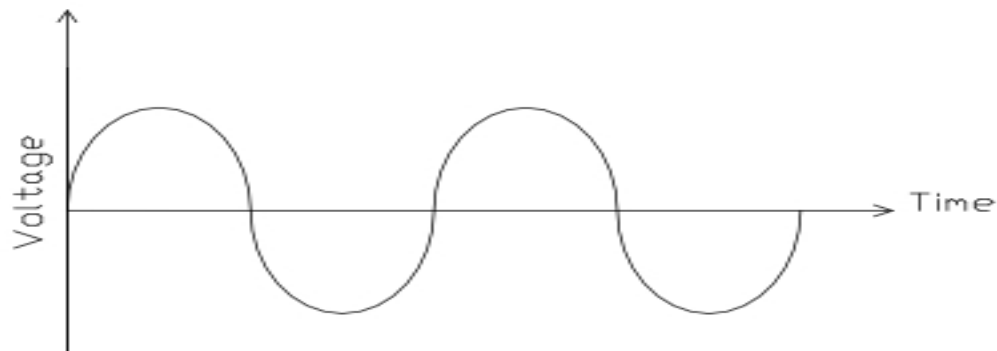
ACE Electromagnetics Pvt. Ltd.

Power Conditioning way ahead

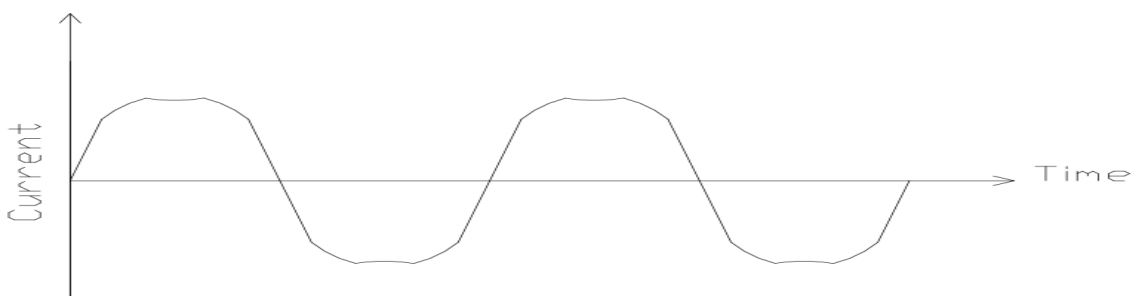
Typical Waveform correction using ACE Shunt Active Harmonic Filters



Typical Waveform of 6 Pulse Converter
Generating 5th and 7th Harmonics



Typical Voltage Waveform with THDv < 3%



Typically Corrected Current Waveform
Using ACE Active Power Conditioner
Current Harmonics THDi < 10%