





Active Power Filter (APF) systems

APF systems provide multiple compensation functionality including:

- (filtering any order from 2nd to 50th harmonic)
 - (compensating in real-time to maintain power factor at >0.99) (reducing the peak current demand tariff on electricity bills)

APF is the new standard in harmonic filtering, a highly accurate, reliable solution for today's networks characterised by significant increases in harmonics, able to provide stable, accurate, real-time PFC (without the drawbacks of traditional capacitor based systems)

The increase of non-linear and other challenging loads in electrical grids today present unique Power

Quality challenges. APF (Active Power Filter) provides a cost efficient solution to Power Quality problems, eliminating resonance problems, preventing amplified harmonic current and voltage, simultaneously

Malls, shopping centres, office blocks, hospitals, printing works, processing plants, Data centres, pumping stations and all applications where harmonic generating equipment is utilised, such as variable speed drives (VSD's) rectifiers, battery charges, UPS's, Power supplies, LED lighting.

- (e.g. extruders, injection moulders)
- Motors, cables, lightly loaded transformers, lighting, etc.
- Complete power quality improvement solution including real-time elimination of harmonics, flicker mitigation
- Provides dynamic step-less compensation instantaneously in real-time to each phase individually
- Only injects the kVAr required in that moment with no possibility of over or under-compensation.
- Can maintain a PF of 0.99 lagging or unity (if required) for both inductive and capacitive loads.
- Voltage fluctuations (flicker) mitigation and reduction of voltage (sag and swell) variations
- Correcting phase imbalance (reducing the peak current which reduces the peak demand tariff on electricity bills)
- Maintenance free (with no electromechanical components) and a longer life span
- Expandable by unlimited parallel installations (unnecessary to over-dimension the capacity to cater future needs)
- Output current is unaffected by mains voltage fluctuations providing stable support for mains voltage.
- 2nd to 50th harmonic
 - Forced air cooling (fan cooling)

 - RS485 and Ethernet (RJ45) ports (via HMI)/RS232 (via LCM)

type	amps	description	expands: up to	dimeı (H)	nsions (W)	· /	

Active Power Filters (AF	PF) - Wa	all mount system (3 ph	nase 4 wi	re) 400V			
PQCMA500BVB00B0*	50A	Active Power Filter (APF) system	-	174 440 600			
PQCMA750ANA23B0	-	LCM controller for (APF)	up to	7 slave devices			
PQCMA101ANB21B0	- 1	HMI touch screen controller for (APF)	up to	7 slave devices			
* Touch screen or LCM controller required.							

Active Power Filters (APF) - Floor standing system (3 phase 4 wire) 400V





