

ENERSINE

(Active Power Filters) - Monolithic

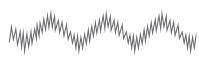





MAXIMUM ACTIVE HARMONICS AND POWER FACTOR COMPENSATION



Enersine 150A

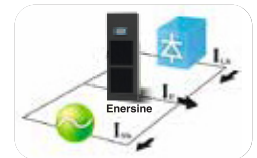
Ablerex Active Power Filters (APF) in monolithic topology are the best solution to compensate variable power factor and harmonics. With high current ratings from 60A to 150A they are adapted to any load size for maximum versatility of use.

PERFECT FOR:

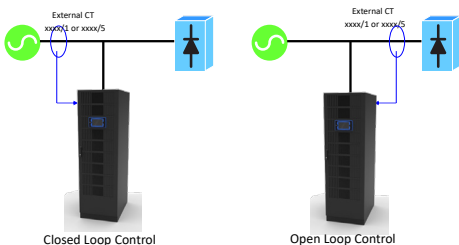
					
Highly polluting loads	Motor drive systems	CNC machines	Airports	Industry	Medical

FEATURES

- 3 level converter based on multi DSP control technology
- Space-saving high power density design
- The same model applies 3 Phase 3 Wires/ 4 Wires System
- Can work in closed or open loop
- Compensate up to 51st harmonics with response time of less than 1ms
- Selective mode - Choice of the harmonics to compensate
- Power Factor Correction
- Correct unbalanced three phase utility
- No overload effects
- Advanced operations interface: 7"Color LCD Touch Screen to set all system's parameters and read the 500 lines logfile
- SD card to download logfile, records waveform and parameter
- Display voltage/current waveform, parameter and frequency spectrum
- Multiple languages
- Customizable LCD SW with logo
- Complete standard communication: 3x output and 1x input dry contact, RS485 ModBus, ethernet, settable e-mail alarm



OPEN/CLOSE LOOP CONTROL



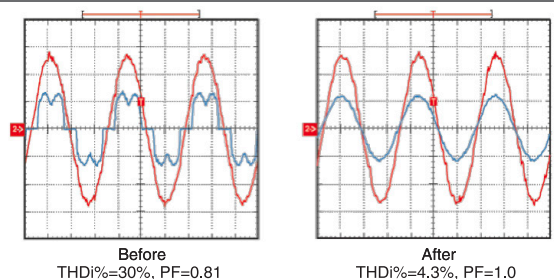
USER FRIENDLY HMI

The 7" color touch screen display of the APF lets you set all the parameters, read the logfile, download data to a removeable SD card. It can also show voltage and current waveforms, before and after the APF activation, together with the frequency spectrum through a bargraph. It can be personalized with different logo and languages.



TRUE HARMONIC & POWER FACTOR CORRECTION

Ablerex APF not only compensates harmonic current but also improves power factor. It will also correct for either a leading or lagging power factor. Enersine can compensate harmonics up to order 51st in less than 1ms.



SPECIFICATIONS

MODEL		ENERSINE 60	ENERSINE 80	ENERSINE 100	ENERSINE 150
ELECTRICAL	Input voltage	400V +15%, -20%; 480V +10%, -20%			
	Phase/Wires	3-phase 4 wires/3wires			
	Max phase compensation current per cabinet	60A	80A	100A	150A
	Frequency	50/60 ±3Hz			
	Harmonic compensation	From 2nd to 51st order			
	Power factor correction	Both lagging and leading programmable			
	Load balancing	Both phase to phase and phase to neutral			
	Reaction time	25µs			66µs
	Control algorithm	CT at Source Side: closed loop control - CT at Load Side: open loop control			
	Parallel (up to)	240A	320A	800A	1200A
COMMUNICATION	Display	7" colorful LCD touch screen			
	Dry contact	3 output dry contacts, 1 input dry contact, 1 EPO			
	Communication	USB, RS-485 modbus RTU port, ethernet port			
	Software	Dedicated monitoring and data storage software			
GENERAL	Equipment storage temperature	-20°C to +70°C			
	Operating temperature	-10°C to +40°C without derating			
	Relative humidity	<95%			
	Operating altitude	<1000m without derating			
	Reference harmonic standard	EN61000-3-4, IEEE 519-1992			
	Reference design standard	EN60146			
	Safety standard	EN50178; UL508			
	Electromagnetic compatibility	EN61000-6-4, EN55011, CISPR 11, IEC 61000-3-12, IEC 61000-3-11, IEC 61000-6-2, IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, EN 61000-4-8, EN61000-4-34			
PHYSICAL	Topology	Monolithic			
	Installation	Wall mount		Floor	
	Max n° of modules per cabinet (60 or 80 A, mixable)	-	-	-	-
	Max modules in parallel	4	4	8	8
	Maximum current	240A	320A	800A	1200A
	Dimensions (WxHxD) mm	500x775x286		600x1900x600	
	Weight (kg)	51	58	195	205
	IP protection degree	IP30/IP31		IP20	
	Open chassis version	-	-	YES	

Specifications subject to change without notice