



Enersine APF
wall-mounting
30-100 A

Enersine APF
modular
400-600 A



ENERSINE APF

Active filters that correct any type of harmonic contamination, compensating for the power factor, reducing energy losses and protecting your systems from breakdowns caused by problems in the electrical network

ENERSINE APF Wall mounting 30 to 100 A

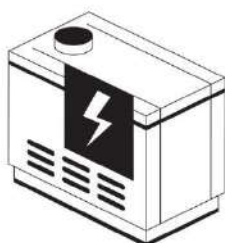


ENERSINE APF Modular 400 to 600 A



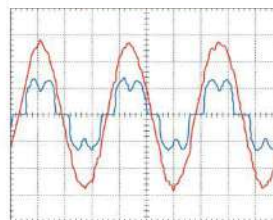
Applications

- Broadcasting
- Shopping centers
- Hospitality
- Transport infrastructures and control rooms
- Oil and gas industries
- Health sector

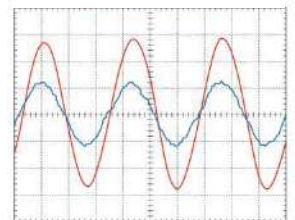


Generator

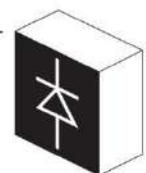
Without Enersine
TDHi% = 30% • PF = 0.81



With Enersine
TDHi% = 4.3% • PF = 1.0



Electrical network



Load

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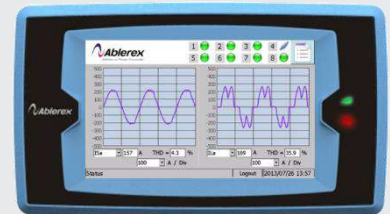
Highlights

- The wall-mounted active filters offer an effective and more economical solution, while the scalability of the modular version protects the investment in the long term
- The power modules in the modular version are easy to install and hot-swappable
- Versatile thanks to modularity, high current rating and the possibility of parallel connection, up to 4 modules and 400 A for the Wall-mounted version and up to 6 modules and 2400 A for the modular version, a mixed configuration can be used in the same system
- Maximum performance with 3-level DSP technology
- Compact design and high-power density minimize installation space
- Connection of 3-phase or 3-phase + neutral systems
- Correction up to the 51st harmonic (up to the 25th harmonic in the 30 A model) with a response time of less than 1 ms
- No overload effect
- Allows the selection of harmonics to be corrected
- Phase balance of three-phase loads
- Open or closed circuit installation
- A single control module manages up to 8 power modules
- All parameters are controlled via a 7" color LCD touchscreen (2.7" LCD on the 30 A model)
- Copy of events and parameters to removable SD card
- Communication available via dry contacts (3 inputs and 1 output), USB, RS485 Modbus RTU and RJ45 Ethernet with programmable alarms sent by e-mail

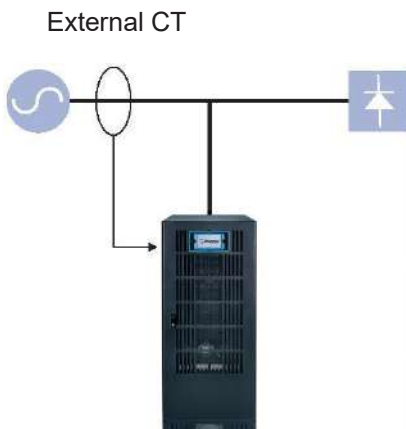
Easy-to-use user interface

The 7" color touchscreen can be used to set all parameters, read and download data to a removable SD card (for all models)

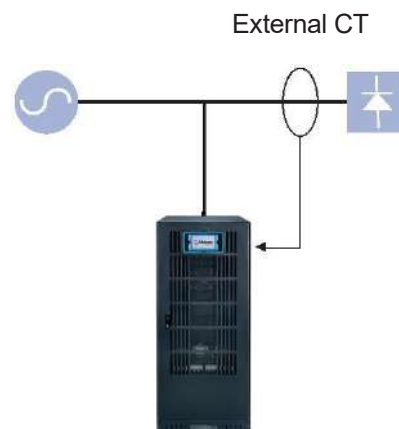
The voltage and current waveforms, before and after correction, can be viewed on the screen, as well as a bar graph of the frequency spectrum



Closed or open circuit control



Closed-loop control



Open circuit control

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Harmonic and FP correction

Harmonics cause an increase in voltage/current in distribution network, causing overheating of cables, switchboards, transformers, motors and generators, component failures, equipment breakdowns and reduce the power factor and, consequently, the capacity of electrical systems and the lack of precision of measuring instruments

The active filter not only actively corrects harmonic currents, up to the 51st order, but also reduces voltage distortion and improves the power factor, inductive or capacitive, with a response time of less than 1 ms

ENERSINE MONOLITHIC TECHNICAL DATA SHEET

MODEL	ENERSINE 30	ENERSINE 60	ENERSINE 80	ENERSINE 100	
CURRENT PER MODULE (A)	30	60	80	100	
ELECTRICAL SPECIFICATIONS	Nominal voltage	400 V +15%, -20% / 480V +10%, -20%			
	Phases	Three-phase			
	Frequency	50/60 ±3 Hz			
	Harmonic correction	From the 2 nd to the 51 st			
	Power factor correction	Capacitive and inductive (selectable)			
	Load balancing	Between two phases and between phase and neutral			
	Response time	25 µs			
ENVIRONMENTAL PARAMETERS	Operating temperature	-10°C to +40°C without current reduction *			
	Relative humidity	<95%			
	Altitude	<1000 m without current reduction, >1000 m with 1% current reduction every 100 m			
	Audible noise at 1 m	<55 dBA	<63 dBA		
GENERAL	Dimensions (WxDxH) mm	348x164x598	500x286x775		
	Weight (kg)	16	51	58	60
	Protection class	IP30 / IP31			
	Link	4-wires / 3-wires			
	Installation	Wall fixing			
	Type	Monolithic			
	Parallel connection (A)	120	240	320	400
	Max. modules in parallel	4			
	Configuração do TC	Source-side CT: closed-loop control / Load-side CT: open-loop control			
CONNECTIVITY	Built-in communication ports	USB, RS-485 ModBus RTU, EPO and dry contact board (1 in / 3 out)	USB, RS-485 ModBus RTU, EPO, Ethernet and dry contact board (1 in / 3 out)		
	User interface	2,7' color LCD screen	7' color touchscreen		
	Software	Monitoring and data storage			
REGULATIONS	Standards	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			
	Booking	IEC 61000-4-5, IEC 61000-4-6, IEC 62477-1, EN 61000-4-8, EN61000-4-34			
		CE, UKCA			

* Enersine 30 model: -10°C to +25°C without current reduction, above +25°C automatic current reduction to 20A

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ENERSINE MODULAR TECHNICAL DATA SHEET

MODEL		ENERSINE 400	ENERSINE 600
MAXIMUM CURRENT PER SYSTEM (A)		400	600
POWER MODULE (A)		60 / 80 / 100	
ELECTRICAL SPECIFICATIONS	Nominal voltage	400 V +15%, -20% / 480V +10%, -20%	
	Phases	Three-phase	
	Frequency	50/60 ±3 Hz	
	Harmonic correction	From the 2 nd to the 51 st	
	Power factor correction	Capacitive and inductive (selectable)	
	Load balancing	Between two phases and between phase and neutral	
	Response time	25 µs	
ENVIRONMENTAL PARAMETERS	Operating temperature	-10°C to +40°C without current reduction	
	Relative humidity	<95%	
	Altitude	<1000 m without current reduction, >1000 m with 1% current reduction every 100 m	
	Audible noise at 1 m	<63 dBA	
GENERAL	Dimensions (WxDxH) mm	600x900x1500	600x900x1950
	Weight (kg)*	150	196
	Protection class	IP21	
	Connection	4-wires / 3-wires	
	Installation	Floor rack	
	Type	Modular	
	Parallel connection (A)	2400	
	Maximum number of modules per system	Up to 4	Up to 6
	Max. number of parallel systems	6	4
	TC configuration	Source-side CT: closed-loop control / Load-side CT: open-loop control	
CONNECTIVITY	Built-in communication ports	USB, RS-485 ModBus RTU, EPO, Ethernet and dry contact board (1 in / 3 out)	
	User interface	7" color LCD touchscreen	
	Software	Monitoring and data storage	
REGULATIONS	Standards	EN61000-3-4, IEEE 519-1992, EN60146, EN50178; UL508, 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 62477-1, IEC 61000-4-5, IEC 61000-4-6, EN 61000-4-8, EN61000-4-34	
	Marking	CE, UKCA	

*Weight without control module and power modules



Innovative solutions

Maximum protection

**Unparalleled
power quality
and control**



Rev.2025/03 - Our commitment to continuous innovation means that catalogue data may be subject to change without notice.

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