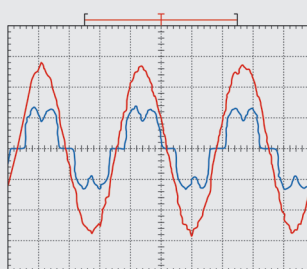


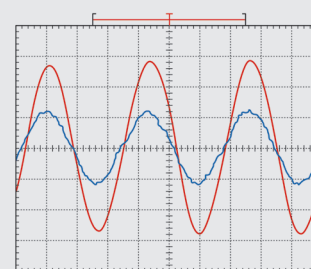
ENERSINE APF

Harmonic and PF correction that can be verified on the display

Ablerex Enersine not only actively corrects harmonic currents up to the 51st order, but also improves the inductive or capacitive power factor with a response time of less than 1 ms. The benefits can be seen easily on the display.



Without Enersine
TDHi%=30% • PF=0.81



With Enersine
TDHi%=4.3% • PF=1.0

ENERSINE MONOLITHIC TECHNICAL DATA SHEET

MODEL	ENERSINE 30	ENERSINE 60	ENERSINE 80	ENERSINE 100	
SIZE (A)	30	60	80	100	
ELECTRICAL SPECIFICATIONS	Rated voltage	400 V +15%, -20%; 480V +10%, -20%			
	Phases	Three-phase			
	Frequency	50/60 ±3 Hz			
	Harmonic correction	From the 2nd to the 51st			
	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 with no derating *			
	Relative humidity	<95%			
	Altitude (a.s.l.)	<1000 m with no derating, >1000 m with 1% derating for 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			
	Connections	4-wire/3-wire			
	Installation	Wall mounting			
	Type	Monolithic			
	Parallel connection up to (A)	120	240	320	400
	Max. parallel modules	4			
	TA configuration	Source side TA: closed loop control - load side TA: open loop control			
CONNECTIVITY*	Built-in communication ports	USB, RS-485 ModBus RTU, EPO and Dry contact board (1 input – 3 output)	USB, RS-485 ModBus RTU, EPO, Ethernet and Dry contact board (1 input – 3 out-put)		
	User interface	Colour 2,7" LCD screen display	Colour 7" LCD touch screen display		
	Software	Data monitoring and storage software			
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			
	Marking	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 derating, above +25°C automatic derating to 20A

ENERSINE APF

ENERSINE MODULAR TECHNICAL DATA SHEET

MODEL		ENERSINE 400	ENERSINE 600
SIZE (A)		400	600
POWER MODULE (A)		60-80-100	
ELECTRICAL SPECIFICATIONS	Rated voltage	400 V +15%, -20%; 480V +10%, -20%	
	Phases	Three-phase	
	Frequency	50/60 ±3 Hz	
	Harmonic correction	From the 2nd to the 51st	
	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 with no derating	
	Relative humidity	<95%	
	Altitude (a.s.l.)	<1000 m with no derating, >1000 m with 1% derating for every 100 m	
	Audible noise at 1 m.	<63 dBA	
GENERAL	Dimensions (WxDxH) mm	600x900x1500	600x900x1950
	Weight (kg)*	150	196
	Protection class	IP21	
	Connections	4-wire/3-wire	
	Installation	Floor standing	
	Type	Modular	
	Parallel connection up to (A)	2400	
	Max. no. of modules per system (60 or 80 A in a mixed configuration)	Up to 4	Up to 6
	Max. parallel systems	6	4
	TA configuration	Source side TA: closed loop control - load side TA: open loop control	
CONNECTIVITY	Built-in communication ports	USB, RS485, Modbus RTU, EPO Ethernet port and dry relay contacts (1 in/3 out)	
	User interface	7" colour LCD touch screen display	
	Software	Data monitoring and storage software	
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 the control module and power modules