

FIEM

Incremental filter & stabilisator: designed to attenuate railway perturbations

Description

Zigor has designed the FIEM incremental filter and stabilisator, to improve the supply capability in celular base stations as well as to attenuate railway perturbations.



The FIEM filters & stabiliser are the solution to reduce the voltage regulation problems as well as the surges on those powering systems based on Railways catenary (25 KVA). The surge energy absorbing procedure is based on a incremental filter, this is a non-destructive device.



FIEM

Features

- > Accuracy of output voltage $\pm 2\%$
- > Output voltage compensated for both input overvoltage and undervoltage
- > Overload capability 1000%
- > Range of input voltage 10%, 15%, 20%, 30%
- > Response speed 12 v/sec
- > Efficiency al 95 %
- > Noise level <30 db
- > Working frequency 45-65 Hz
- > Operating temperature $-10^{\circ} / + 45^{\circ}$
- > Maximum height 2500 mts
- > Magnetothermic breakers/fuse protection
- > Digital voltmeter
- > Unlimited operation of incremental filter powering systems
- > Número de maniobras prácticamente ilimitada
- > Parallel
- > It doesn't introduce any harmonic distortion
- > Improves reliability of powering systems
- > High stability

FIEM components

- > **Electromechanical stabilizer:** to maintain output voltage stable.
- > **Incremental filters:** to absorb surges. (number of filters optional)
- > **Output relay:** connects the output through the FIEM.
- > **Auxiliar electronics:** manage the FIEM and the three alarms, available through 3 dry contacts.

telecommunications

railway

industrial

logistics centres

production processes

robots



STABILIZER		
Models	FIEM 20	FIEM 50
Output voltage	20 KVA	50 KVA
Input voltage	230 V +/- 20 % single-phase	
Nominal output voltage	230 V ± 2%	
Output maximum current	87 A	217 A
Maximum input current	103 A	256 A
Overload capability	100% 60 sec.	
Response speed	12 v./ sec.	
Frequency	45/65 Hz	
Efficiency	98%	

INCREMENTAL FILTER		
Models	FIEM 20	FIEM 50
Maximum voltage	450 Vp	
Continuous	300 J	

GENERAL SPECIFICATIONS		
Temperature	0°C +45°C	
Relative humidity	5% and 85%	
Maximum height	2.500 msnm	
Weight kg	120	300
Dimensions HxDxW	600x600x1600	

STANDARDS		
Certifications	CE	
Directives	UNE-EN 50178 (98) 89/336/CEE-93/68/CEE	

(1) For other voltages please consult us.

(2) External battery cabinet, consult weights and dimensions for other voltages.

Specifications may be changed without notice

Options

- > Galvanic isolation transformer
- > Ultra galvanic isolation transformer
- > Gas arrestors
- > Low and maximum voltage protection
- > Automatic or manual bypass
- > External voltage adjustment
- > Current limitation
- > External meters of current and power