

EG1-FC

SINGLE PHASE 0.8-6KVA

SINGLE PHASE FREQUENCY CONVERTERS

TECHNICAL SPECIFICATION



SINGLE PHASE FREQUENCY CONVERTES EG1 SERIES – DOUBLE CONVERSION



The EG1 series is available in ratings from 0.8 KVA to 6 KVA single phase with dual-controlled On-Line technology. This 50/60Hz frequency converter, for its versatility, is suitable to supply any electrical and electronic system even in situations or in combination with the use of motor-powered power generators

Features

A true double conversion frequency converter that provides a perfect current, for a proper high-quality supply of all devices that require power with different frequencies or network voltages.

POWER FACTOR 1

Comparing this line of ON-LINE frequency converters with competition in the current market, we can say that EG1 systems have the best Power Factor output equal to 1. They Provide high performance and efficiency for critical applications.

LARGE INPUT RANGE (110 V -300 V)

EG1 is able to provide stable and clean current to the equipment connect even in very critical and unstable environments.

50/60 HZ FREQUENCY CONVERTER FUNCTION

Blocks the output frequency at 50Hz or 60Hz regardless of the incoming frequency and deletes the By-Pass available in the UPS version of the system

(EPO) Emergency Power Off function

This function is used for the emergency switch off in case of fire and other emergency situations.

CONTEMPORARY OPERATION of SNMP-USB-RS232

This feature allows you to use communication from all USB ports, RS-232 and SNMP simultaneously (optional SNMP card).

12 MONTHS GUARANTEE



Technical data and images may be subject to a change without notice

SINGLE-PHASE FREQUENCY CONVERTES

EG1 SERIES – DOUBLE CONVERSION

Model		EG101K-FC	EG101.5K-FC	EG102K-FC	EG103K-FC
Power		800VA - 800W	1200 VA / 1200 W	1600 VA / 1600 W	2400 VA / 2400 W
Input					
Rated voltage		200-208-220-230-240V (or 110V/115V/120V or others on demand)			
Voltage Range	Turn off low/high line	110VAC / 300VAC ± 3 % @ 50% load 160VAC / 300VAC ± 3 % @ 100% load			
Frequency Range		40 Hz : 70 Hz			
Phases		single-phase with Neutral + earth			
Power factor P. F.		≥ 0.99 @ rated voltage (100% load)			
Output					
Rated voltage		200/208/220/230/240Vac (or 110V/115V/120V or others on demand)			
Voltage Tolerance		± 1%			
Frequency		50 Hz ± 0.1 Hz or 60 Hz ± 0.1 Hz (to be defined at the time of order)			
Crest Factor		3:1			
Harmonic distortion		< 2 % THD (Linear Load) < 4% THD (nonlinear load)			
Waveform		PURE SINEWAVE			
Efficiency					
With network present		> 89%		> 91%	
Signals					
LCD Panel		Converter state, Load level, input/output voltage, failure condition			
Alarms					
Overload		Double sound every second			
Fault		Continuous sound			
DIMENSIONS AND WEIGHT					
Tower format	Size, D x W x H (mm)	397 X 145 X 220		421 X 190 X 318	
	Net weight (kg)	7.0 ***		12.3 ***	
ENVIRONMENTAL DATA					
Operational humidity		20-90%RH @ 0:40°C (No condensation)			
Noise		< 50dBA @ 1 Meter			
Interfaces					
Smart RS-232/USB		Windows family, Linux, Mac			
Optional SNMP		Power management per SNMP manager e web browser			

* An additional code based on the input/output voltages completes the product code

* Input voltages – output other than 230V may result in a derating of the product

** The factory-set output frequency is not reprogrammable by the user

*** weights are referred to the 230V input/output model – weights may vary depending on input/output voltages

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SINGLE-PHASE FREQUENCY CONVERTES

EG1 SERIES – DOUBLE CONVERSION

MODEL		EG106K-FC	EG110K-FC
Phases		Input Single Phase / Output Single-Phase	
Rated Power		3600VA / 3600W	6000VA / 6000W
10' rated power		3960VA / 3960W	6600VA / 6600W
1' rated power		4680VA / 4680W	7800VA / 7800W
Input			
Rated voltage		230V (or 110V/115V/120V or other on demand)	
Voltage Range	Turn off low line	176 VAC @ 100% of the load 110 VAC @ 50% of the load	
	Return from deactivation	186 VAC @ 100% of the load 120 VAC @ 50% of the load	
	Turn off high line	300 VAC	
	Return from deactivation	290 VAC	
Frequency Range		46-54 Hz @ 50Hz / 56-64 Hz @ 60Hz	
Power factor P.F.		> 0.99 @ 100% load	
Output			
Rated voltage		200/208/220/230/240V (or 110V/115V/120V or other on demand)	
Voltage Tolerance		± 1%	
Frequency		50 Hz ±0.1Hz or 60 Hz ±1Hz (to be defined at the time of order)	
Crest Factor		3:1	
Harmonic distortion		2% THD (linear load) 4% THD (nonlinear load)	
Waveform		PURE SINEWAVE	
Efficiency			
With network present		94%	
Signals			
LCD Panel		Converter Status, Load Level, Input/Output voltage, Fault Condition	
Alarms			
Overload (overhead)		Double sound every second	
Fault		Continuous sound	
DIMENSIONS AND WEIGHT			
Tower format	Size, D x W x H (mm)	592 X 250 X 576	
	Net weight (kg)	30 ***	30 ***
ENVIRONMENTAL DATA			
Operational humidity		20-90 % RH @ 0- 40°C(no condensation)	
Noise		< 55dBA @ 1 m	< 58dB @ 1 m
Interfaces			
Smart RS-232		Windows family, Linux, Mac	
USB			
Optional SNMP		Power management per SNMP manager e web browser	

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