

ERT1xx-FC

SINGLE PHASE 0.8-8KW

FREQUENCY CONVERTERS VOLTAGE CONVERTERS 19" DOUBLE CONVERSION RACK TECHNICAL SPECIFICATION



The ERT1 CONVERTIBLE RACK series is available in powers from 0.8 KVA to 8 KVA with digitally controlled On-Line double conversion technology. This series, due to its versatility, is suitable for converting the 50/60Hz frequency to power any electrical and electronic system even in critical situations

FREQUENCY CONVERTERS SINGLE-PHASE ERT1xx-FC SERIES 19" DOUBLE CONVERSION RACK

• DOUBLE CONVERSION FREQUENCY CONVERTER

A true DOUBLE CONVERSION frequency converter that will provide perfect current, for complete high quality protection for your sensitive devices, such as PC networks (Networks), Small Data Centers, Servers, Telecommunications, Healthcare/Hospital Equipment, and in industrial applications in general.

It is necessary to communicate whether the conversion must be carried out from 50Hz to 60Hz or vice versa, to carry out the factory setting.

It is possible to request input or output voltages other than 230V, such as 115V, 208V or others on request

• POWER OUTPUT FACTOR ϕ 1.0

Comparing this line with the competition in the market, we can say that EGRT drives have the best output Power Factor 1.0. Offer high performance and efficiency for critical applications

• FUNCTION (EPO) Emergency Power Off

This function is used to turn off the UPS by the personnel in charge in the event of a fire and other emergency situation.

• SNMP+USB+RS-232 SIMULTANEOUS OPERATION

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

• RACK 19" / TOWER design

The EGRT series can be installed in a 19" RACK or TOWER version, with the easy rotation of the LCD display

• Power Factor Correction fino a 0.99

PFC improves the quality of the absorbed current and increases energy efficiency, with consequent cost savings

12 MONTH WARRANTY



ERT101K-FC ERT101.5K-FC ERT103K-FC



ERT102K-FC



ERT101K-FC-ERT102K-FC



ERT103K-FC



ERT106K-FC-ERT110K-FC

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

FREQUENCY CONVERTERS

SINGLE-PHASE ERT1xx-FC SERIES

19" DOUBLE CONVERSION RACK



MODEL	ERT101K-FC	ERT101.5K-FC	ERT102K-FC	ERT103K-FC
POWER	800VA/800W	1200VA/1200W	1600VA/1600W	2400VA/2400W
INPUT DATA				
Rated voltage	230Vac single-phase (OR OTHERS ON REQUEST)			
Frequency range	40Hz : 70Hz ±5%			
No. Of phases	Single-phase with neutral			
PF Power Factor	≥ 0.99 to rated voltage (100% load)			
OUTPUT DATA				
Voltage	230Vac single-phase (OR OTHERS ON REQUEST)			
Frequency (range battery mode)	50Hz ± 0.1Hz o 60Hz ± 0.1Hz			
Crest Factor	3 : 1			
Harmonic distortion	≤ 2% THD (linear load) ≤ 4% THD (nonlinear load)			
Wave form	PURE SINE (distortion in relation to the electrical network)			
EFFICIENCY				
With network present	90%		91%	
REPORTS				
LCD Panel	Converter status – load level – input/output voltage – fault			
ALARMS				
Overload	I play every second			
Fault	Continuous sound			
Dimensions and weight				
Dimensions DxWxH mm	410x438x88	410x438x88	510x438x88	630x438x88
Net weight kg.	7	7	11	13
ENVIRONMENTAL CONDITIONS				
Operating Humidity	20 ÷ 90% RH @ 0 ÷ 40°C (non-condensing)			
Noise	< 50DbA @ 1 m.			
INTERFACES				
Smart RS232/USB	Windows family, Linux, Mac			
Optional SNMP	Power management per SNMP manager e web browser			

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FREQUENCY CONVERTERS

SINGLE-PHASE ERT1xx-FC SERIES

19" DOUBLE CONVERSION RACK



		ERT106K-FC	ERT110K-FC
POWER		4.8KVA/4.8KW	8KVA/8KW
INPUT DATA			
Tension	Voltage rating	230Vac single-phase (or others on request)	
	Voltage range	110-300Vac $\pm 5\%$ at 50% load / 176-300Vac $\pm 5\%$ at 100% load	
	Low Line Return	170Vac $\pm 5\%$	
	Return high line	290Vac $\pm 5\%$	
Frequency		46:54Hz @ 50Hz / 56:64Hz @ 60Hz	
No. Of phases		Single-phase with ground	
PF Power Factor		≥ 0.99 to rated voltage (100% load)	
OUTPUT DATA			
Voltage		230Vac single-phase (or others on request)	
Voltage tolerance (battery mode)		$\pm 1\%$	
Frequency (synchronization range)		46Hz : 54Hz o 56Hz : 64 Hz	
Output Frequency		50Hz ± 0.1 Hz o 60Hz ± 0.1 Hz	
Crest Current Factor		3 : 1	
Harmonic distortion		$\leq 2\%$ THD (linear load) $\leq 4\%$ THD (nonlinear load)	
Wave form		SINE WAVE	
EFFICIENCY			
With network present		91%	
REPORTS			
LCD Panel		Converter status – load level – input/output voltage – fault	
ALARMS			
Overload		Double sound every second	
Fault		Continuous sound	
Dimensions and weight			
Dimensions DxWxH mm		610X438X88	610X438X88
Net weight kg.		17	20
ENVIRONMENTAL CONDITIONS			
Operating Humidity		0 ÷ 95% RH @ 0 ÷ 40°C (non-condensing)	
Noise		< 58DbA @ 1 m.	< 60DbA @ 1 m
INTERFACES			
Smart RS232/USB		Windows family, linux, Unix, Mac	
Optional SNMP		Power management per SNMP manager e web browser	

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