



## EPS - Datasheet

### Series EPS/FC

EPS's microprocessor controlled Frequency Converter »EPS/FC« series is highly compact and rugged. It comes with a pure sine wave output with a low THD. There are units available with an output between 250 VA and 6000 VA. The AC/AC converters provide a single phase universal input 95-264V (from 300VA) and different output voltages and frequencies of 50, 60 or 400Hz. The units feature full electronic protection and low input and output noise. For example, the converter has an output overload protection (OLP) and a current limiting with short circuit protection. The components are also provided conformal coating for standard.

Common application fields are simulations of the electrical system to the testing according to customer conditions, avionic training simulations as well stationary 400Hz sine-wave power supplies in the field of service and production.

As an option e.g. are Power Fail Alarm (OF), ruggedizing against shock and vibrations (RG), remote shutdown (RS) as well as extended temperature range (CT -40°C until +70°C).

We also offer an optional modified line / load regulation  $\pm 2\%$  (LR).

Available are these converters (from 2kVA) optional as Chassis or 19"-Rack-mount versions. As standard, the converters are supplied with screw terminal block input/output.

The devices are CE, UL as well as CSA certified.

Energy efficiency: high efficiency, high MTBF

Scope of delivery:

AC/AC Converter

Operation Manual on request

**EPS/FC 500-UM-FO-19**  
**AC/AC Frequency Converter**

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EPS/FC 500

**General data**

Technology	Switching
Operation modes	CV
Mains	90-264 VAC 1-ph
Input frequency	47-63Hz
Power factor	0.97
Input Current Limitation	Standard
Voltage Stability Load	+5% (0-100%)
Voltage Stability Mains	+5% (0-100%)
Isolation In-/Output	2250VDC
Isolation Output/Enclosure	1500VDC
Cooling	Fan
Operation temperature	0-50°C
Humidity	5-95% n.c.
Design	Built-in
Standards	EN62368-1, EN55022, UL458, C22.2 No.107.1-01
ruggedized	Option EPS/F..RG

**Interfaces**

**Technical data**

Output Voltage	115 VAC
Output Current	4,34A
Output Power	500 VA

**Technical data**

Input Current	7A
Crest factor	2 @ 90%
Distortion	<5% (100%)
Output Frequency	400Hz
Efficiency	>= 80%
Ripple U	<500mVrms (BW 20MHz)
Dimensions in mm (WxHxD)	132 x 132 x 407
Weight	4,5 kg
Order code	400268

**Options**

Option 1	Output fail alarm Option EPS/F..OF
Option 2	Expanded temperature range EPS/F..CT
Option 3	Floating Output EPS/F..FO
Option 4	Line/Load regulation $\pm 2\%$ (0-100%) EPS/FC..LR
Option 5	19" rack-mount version EPS/F..19 inch



EPS/FC 1000\_1500 Chassis



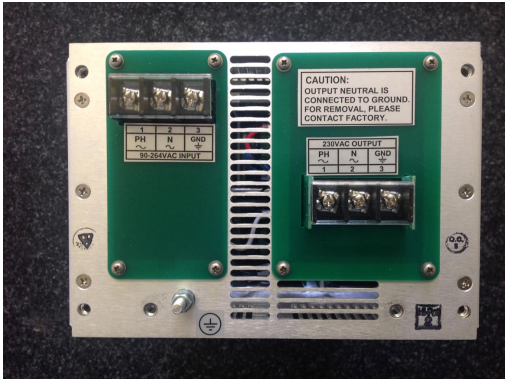
EPS/FC 500 Chassis



EPS/FC 250



EPS/FC 3000-4500 19rack



EPS/FC 1000 rear

OUTPUT				INPUT								
NOT USED	L1 ~	L2 ~	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	GND $\perp$	N ~	PH ~
1	2	3	4	5	6	7	8	9	10	11	12	

EPS/FC200-300 Terminal

Subject to modification without notice, errors and omissions excepted

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