

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 (EPS/FCP only CE).

Energy efficiency: high efficiency, high MTBF

Scope of delivery:

AC/AC Converter

Operation Manual on request

EPS/FCP 1000-UM AC/AC Frequency Converter



EPS/FCP 1000

General data

Technology	Switching
Operation modes	CV
Mains	230VAC (190-264V) 1-ph
Input frequency	50Hz
Power factor	EN61000-32
Input Current Limitation	Standard
Voltage Stability Load	±5% (0-100%)
Voltage Stability Mains	±5% (0-100%)
Isolation In-/Output	2250VDC
Isolation Output/Enclosure	2250VDC
Cooling	Natural convection
Operation temperature	0-50°C
Humidity	5-95% n.c.
Design	Built-in
Standards	EN62368-1, EN 55032 Class A, IEC 61373 Cat 1 A&B
ruggedized	Option EPS/F..RG

Interfaces

Technical data

Output Voltage	115 VAC
Output Current	8,7A
Output Power	1000 VA

Technical data

Input Current	6,3A rms
Crest factor	2.0 @ 90%
Distortion	<5% (100%)
Output Frequency	400 Hz
Efficiency	>85%
Ripple U	<500mVrms (BW 20MHz)
Dimensions in mm (WxHxD)	280 x66 x 361
Weight	4,0 kg
Order code	400274

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 5	19" Rack-mount EPS/F..19 inch



EPS/FC 1000_1500 Chassis



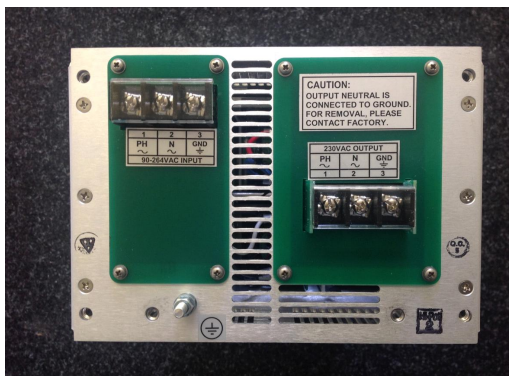
EPS/FC 500 Chassis



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	GND	N	PH
1	2	3	4	5	6	7	8	9	10	11	12

EPS/FC200-300 Terminal (not isolated)

Subject to modification without notice, errors and omissions excepted

EPS Stromversorgung GmbH
Electronic Power Supplies
Alter Postweg 101, 86159 Augsburg/Germany
Tel.: +49 (0) 821 570451-0
E-mail: sales@eps-germany.de
www.eps-germany.de