



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 3000-UA AC/AC Frequency Converter



EPS/FC 3000-4500 Chassis

General data

Technology	Switching
Operation modes	CV
Mains	95...264 VAC
Input frequency	47-63Hz
Power factor	0.97
Input Current Limitation	Standard
Voltage Stability Load	±6% (0-100%)
Voltage Stability Mains	0,5%
Overheat protection	Standard
Isolation In-/Output	2250VDC
Isolation Output/Enclosure	2250VDC
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
Power fail	Option EPS/F..PF

Interfaces

Technical data

Technical data

Output Voltage	115 VAC
Output Current	26A
Output Power	3000 VA
Input Current	38A rms
Crest factor	2,0 (90%)
Distortion	<5% (100%)
Output Frequency	60Hz
Efficiency	85% (100%)
Ripple U	<500mVrms (BWL20MHz)
Dimensions in mm (WxHxD)	432 x132 x 432
Weight	11 kg
Order code	400282

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



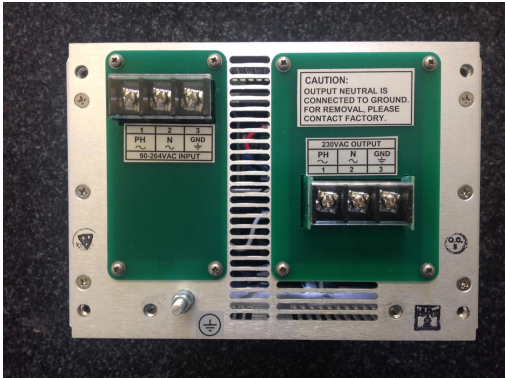
EPS/FC 500 Chassis



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	NOT USED	GND	N	PH
1	2	3	4	5	6	7	8	9	10	11	12	
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EPS/FC200-300 Terminal

Subject to modification without notice, errors and omissions excepted

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