



## 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/FCP 300-UE AC/AC Frequency Converter

---



### EPS/FCP 300

#### General data

|                            |  |
|----------------------------|--|
| Technology                 | Switching                                    |
| Operation modes            | CV   |
| Mains                      | 95-264 VAC 1-ph                              |
| Input frequency            | 47-420Hz                                     |
| Power factor               | >0.97  |
| Input Current Limitation   | Standard                                     |
| Voltage Stability Load     | ±2% (0-100%)                                 |
| Voltage Stability Mains    | ±2% (0-100%)                                 |
| Isolation In-/Output       | 4300VDC                                      |
| Isolation Output/Enclosure | 2250VDC                                      |
| Cooling                    | Natural convection                           |
| 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 | 230 VAC |
| Output Current | 1,3A    |
| Output Power   | 300 VA  |

### Technical data

|                          |                      |
|--------------------------|----------------------|
| Input Current            | 3,3A rms             |
| Crest factor             | 2.0 @ 90%            |
| Distortion               | <5% (100%)           |
| Output Frequency         | 50 Hz                |
| Efficiency               | 80%                  |
| Ripple U                 | <500mVrms (BW 20MHz) |
| Dimensions in mm (WxHxD) | 152 x 67 x 357       |
| Weight                   | 2,2 kg               |
| Order code               | 400266               |

### Options

|          |                                      |
|----------|--------------------------------------|
| Option 1 | Output fail alarm Option EPS/F..OF   |
| Option 2 | Expanded temperature range EPS/F..CT |



EPS/FC 1000\_1500 Chassis



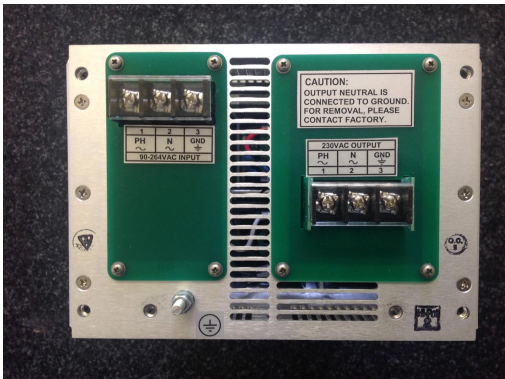
EPS/FC 500 Chassis



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 |       |  |

EPS/FC200-300 Terminal

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](mailto:sales@eps-germany.de)  
[www.eps-germany.de](http://www.eps-germany.de)