



EPS - Datasheet

Series EPS/FC 10-315

The microprocessor controlled Converter »EPS/FC 10-315« of EPS Electronic Power Supplies provides a pure sine wave output. There are stationary units with an output between 10kVA and 315kVA available. The maximum response time at a mains change is 10ms. The AC/AC converters provides a three phase input/output voltage with 200/400 V and are temporarily overload-protected (10s - 2-times, 1m - 1,5--times, 10m - 1,25--times).

The output frequency is a 400Hz fixed frequency for standard. All units provide an extensive protection of the functions and have a Start/Stop switch as well an external Remote Contact for the Switching ON/OFF. The LCD display indicates the voltage, current and frequency as well the failure function.

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.

Additional to the aircraft directive EN 2282 the units are qualified to ISO 6858.

As an option are also converters with batteries (UPS), units with isolated transformers at the output, a multifunctional display, a RS485/RS232/USB or SNMP Interface as well an output frequency of 800Hz for avionic applications available. Optional are 50 and 60Hz output frequency converters available, too.

Energy efficiency: New switching technology, high efficiency

Scope of delivery:

Converter

Operation Manual

**EPS/FC 2040033
20 kVA Avionic Converter**



EPS/FC 10-315-Cabinet

General datas

Technology	Switching
Operation modes	CV
Mains	400 VAC 3ph +-15%
Input frequency	50/60Hz
Power factor	<0,94
Display	Digital LCD
Voltage accuracy	+-5%
Voltage Stability Load	+-1% stat.(0-100%)
Overheat protection	Standard
Protection class	IP20
Parallel operation	Option EPS/FC OP
Cooling	Fan
Operation temperature	-5°C ... +45°C
Storage temperature	-5°C...+60°C
Humidity	0-95% n.c
Attitude	1000m / NN
Design	Cabinet
Standards	EN2282,ISO6858,EN50081-2,EN50082-2,EN50091-2

Interfaces

Analog Programming	Remote On/Off
USB Interface	Option EPS/FC USB
RS232 Interface	Option EPS/FC RS232

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RS485 Interface	Option EPS/FC RS485
Ethernet Interface	Option EPS/FC SNMP

Technical datas

Output Voltage	200/115 VAC 3ph.+N
Output Current	57A
Output Power	20000 VA
Input Current	30 A
Crest factor	1,41
Distortion	3% linear
Output Frequency	400Hz
Frequency Accuracy	+/-0,5%
Efficiency	<93%
Ripple U	<500mVrms (BWL20MHz)
Dimensions in mm (WxHxD)	800 x 1200 x 600
Weight	250 kg
Order code	102251

Options

Option 1	Multi function display EPS/FC 4Q Monitor
Option 3	Output frequency 800Hz EPS/FC x800x
Option 4	Further options avionics on request

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