



EPS - Datasheet

Series EPS/FC 10-315

EPS's microprocessor controlled Converters »EPS/FC 10-315« series 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-proofed (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 (Avionic). The Touch 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 well the MIL STD 704F.

As an option are also converters with batteries (UPS), units with isolated transformers at the output, a multifunctional display, an extended temperature range from -40° until +50°C, 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 as well as Voltage Stabilizer available, too.

Energy efficiency: New switching technology, high efficiency

Scope of delivery:
AC/AC Converter
Operation Manual

EPS/FC 2040033 20 kVA Avionic Converter



EPS/FC10-315 Converter

General data

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%)
Output Current Limitation	125%-10min/150%-1min
Overheat protection	Standard
Protection class	IP21
Parallel operation	Option EPS/FC OP
Cooling	Fan
Operation temperature	-10°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
Alarmmanagement	Emergency

Interfaces

Analog Programming	Remote On/Off
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USB Interface	Option EPS/FC USB
RS232 Interface	Option EPS/FC RS232
RS485 Interface	Option EPS/FC RS485
Ethernet Interface	Option EPS/FC SNMP

Technical data

Output Voltage	200/115 VAC 3ph.+N
Output Current	46A
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)	950 x 1500 x 600
Weight	250 kg
Order code	400201

Options

Option 1	Multi function display EPS/FC 4Q Monitor
Option 2	Output frequency 50 oder 60Hz EPS/FC x50/60x
Option 3	Output frequency 800Hz EPS/FC x800x
Option 4	Extended temperature range EPS/FC EXTEMP
Option 6	Further options avionics on request

Subject to modification without notice, errors and omissions excepted

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