



EPS - Datasheet

Series EPS/B

The new microprocessor-controlled AC boosters series »EPS/B" (BB=Booster Basic, BP=Booster Premium) from EPS Electronic Power Supplies are constructed with double converter technology and offer pure sine at the output.

Output power from 1500VA at 10A to 17500VA at 116A (175App) is available. The AC/AC frequency converters with adjustable single-phase output voltage offer a single-phase or three-phase input. Zeroing at the output is not allowed; an external isolating transformer is required. The output frequency, which is also monitored, can be switched to 50 or 60Hz fixed frequency (EPS/BB series) or adjustable from 40-80Hz (EPS/BP series).

The output frequency 400Hz (EPS/BB series option) are also available.

The devices can be overloaded for 6 sec. by 1.5 times. The settings such as output voltage and frequency are made via the digital 2 line LDC display with pushbuttons/potentiometer (EPS/BB series) or colored 7" touch panel (EPS/BP series), except 10 and 17,5kVA LED.

The converters are used everywhere, in which electrical devices are operated with different sine voltages and frequencies that deviate from the standard. This voltage and frequency converter product line is a powerful and cost-effective alternative to AC sources for laboratory use.

The units have an analog, Ethernet as well an RS232 interface and an external contact, e.B. for power On/Off as standard, SCPI and LabView driver are included (except TS units 10-17.5kVA). The devices with touch panel (EPS/BP) have a current control and you can also program ramps.

Optionally available is a USB adapter (via the analog interface, only Voltage adjustment).

The one phase output units will be delivered as 19" models. Our EPS/BB-SS from 1,5 up to 7,5kVA) can be provided as an ATE design, too.

The three phase output units do only have a LCD display with 4x16 characters.

Customer-specific versions are also possible, e.B. for water purification by means of ozone generators, driven by our power generators with an output frequency of 800Hz.

Energy Efficiency: Latest MOS technology, High efficiency

Scope of delivery:

Converter

Operation Manual

EPS/BB5.0-SS-R-AU AC/AC Frequency Converter



EPS_BB-R Series LCD 1-7kVA

General data

Technology	Switching
Operation modes	CV
Mains	190-267 VAC 1ph.+ N/PE +/-15%
Input frequency	50/60Hz
Display	LCD 2x16
Voltage resolution	+/- 0,5V
Voltage accuracy	+2 digits
Voltage Stability Load	+/-1% / +/-3% dyn.
Voltage Stability Mains	~1%
Response time Voltage	< 1 ms
Current Resolution	+/-0,5A
Current Accuracy	+2 digits
Output Current Limitation	150% - 6s
Overheat protection	Standard
Protection class	IP20
Cooling	Fan
Operation temperature	0°C - 40°C
Humidity	85% n.c.
Attitude	1000m / NN
Design	19 inch
Standards	EN62368-1,EN61000-4-2,EN62040-1/2/3

Interfaces

Analog Programming	Standard
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USB Interface	Option EPS/IF-UTA+E114944
RS232 Interface	Standard
Ethernet Interface	Standard

Technical data

Output Voltage	125V+-25V,250VAC+-50V,L-N
Output Voltage 2	Remote: 2-150 V/4-300 VAC
Output Current	33Aeff/50App@<150V
Output Current 2	16,6Aeff/25pp@>150V
Output Power	5000 VA
Input Current	24A
Crest factor	4:1
Distortion	<=1%
Output Frequency	50/60Hz
Efficiency	>93%
Remote Sensing	Standard
Dimensions in mm (WxHxD)	483 x 133 x 500
Weight	22 kg
Order code	400042

Options

Option 1	Output frequency 400 Hz EPS/BB-FR4
Option 2	Isolation Transformer at the output EPS/BB-xx-ISO
Option 3	ATE design EPS/BB-xx-P
Option 4	Output Voltage up to 700VAC (Ph-N) EPS/B-HV



EPS_B Anschlüsse_connections