EPS - Datasheet

Series E/PS 3000 C

EPS's microprocessor controlled DC power supplies »E/PS 3000 C« series are inexpensive desktop devices for a wide range of laboratory applications. Available are devices with power up to 640W, output voltage from 0-40V to 200V and currents up to 40A. They ensure clean output voltages and currents with low ripple and noise.
All versions have a power-controlled output stage. In laboratory environments, a single EPS 3000 C can replace multiple devices of different voltage and current classes. The small housing dimension, the intuitive control panel with the coloured display, together with the DC output accessible on the front, facilitate the construction, connection and operation on the site.

In addition to standard features of power devices, they provide some additional features as standard, which simplify working with these devices and help save time. And for setting values, monitoring limits and user profiles it can also be quickly configured and read back.

The Laboratory power supply units can be extended by different interfaces. For this, optional digital interfaces such as USB and Ethernet and/or an analogue interface are available. All interfaces and the control unit are galvanically isolated to the input.
The free Software (ModBus-RTU and SCPI capable) offers e.g. a feature called Sequencing,where the unit is controlled through a semi-automatic table in CSV format.

Scope of delivery:
Power Supply with carrying handle/tilt stand
Test report
Mains cable (Schuko+UK plug)
USB-Stick with manual and Software EPS/PC

Series E/PS 3000 C

E/PS 3200-04 C
Laboratory Power Supply

E/PS 3000 C_Front

General data

Technology	Switching
Operation modes	CV. CC. CP
Mains	90-264 VAC
Input frequency	45-66 Hz
Power factor	>0,99
Display	TFT color
Voltage resolution	0,1V
Voltage accuracy	<0,1%
Voltage Stability Load	<0,05% (10-100%)
Voltage Stability Mains	<0,02% (+-10%)
Response time Voltage	<1,5ms
Current Resolution	0,001A
Current Accuracy	<0,2%
Current Stability Load	<0,15% (1-100%)
Current Stability Mains	<0,05% (+-10%)
Output Current Limitation	Standard
Power Accuracy	<1% Pnom
Overheat protection	Standard
Isolation In-/Output	2,5kV max.
Isolation Output/Enclosure	+/-400V
Protection class	1
Cooling	Fan
Operation temperature	0-50°C
Storage temperature	-20...70°C
Humidity	<80% n.c.

Series E/PS 3000 C

Attitude	<2000m
Design	Desktop
Standards	EN 61010, EN 60950
Output Preset	Standard
Memory	Standard
Capacity	out 194µF

Interfaces

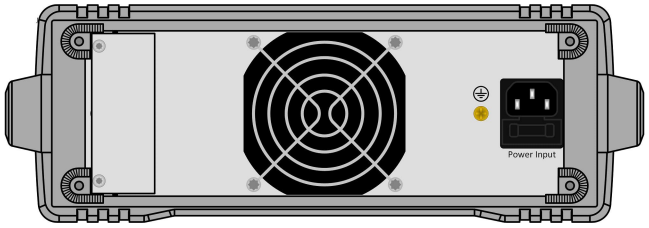
Analog Isolation	Option EPS/IF-KE5 USB/ANA
Accuracy Interface	0-10V: <0,2%, 0-5V: <0,4%
USB Interface	Option EPS/IF-KE5 USB
Ethernet Interface	Option EPS/IF-KE5 USB/LAN
Software	Standard EPS/PC

Technical data

Output Voltage	0-200 VDC
Output Current	0-4 A
Output Power	320 W
Ripple U	<13mVrms/70mVpp
Ripple I	<6mArms
Remote Sensing	Standard max.5%Unom
Dimensions in mm (WxHxD)	260 x 88 x 323
Weight	~4 kg
Order code	200395

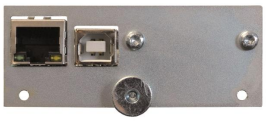
Options

Option 1	Calibration with protocoll EPS 3000-C CAL



E/PS 3000 C_Rear

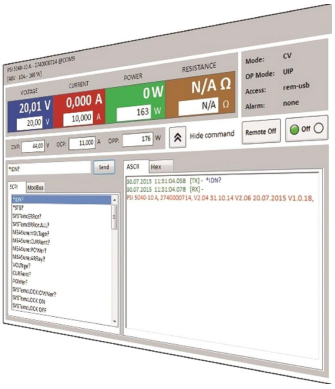
Series E/PS 3000 C



EPS/IF-KE5 USB-LAN

EPS/IF-KE5 USB-ANALOG

Series E/PS 3000 C



EPS_PC_Software

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