



EPS - Datasheet

Series E/PS 2000B

The flexible power limitation, the compact structure, the practical housing design and a favorable price/performance ratio characterize the microprocessor-controlled laboratory power supplies »E/PS 2000B« from EPS Electronic Power Supplies. The series is available with single- and triple output up to a power range of 340W.

Besides the output voltages of 42V and 84V, the multiple outputs have a 12W auxiliary output with 3-6V. Also the »Tracking« feature provides simultaneous control of both main outputs, so the user can, for example, set up a variable +15V output.

The units are closed at top and bottom and have no external heat sinks. Thus are especially suitable for use in schools and training establishments. The safety sockets are in front of the unit.

Nominal values for voltage, current, overvoltage threshold (OVP) and overcurrent threshold (OCP) as well the actual values of output voltage and current are indicated at a colored TFT display (123457 and 123461 LCD display). The adjustable threshold of OVP and/or OCP from 0-110% nominal, will protect a malfunctioning application from overvoltage/-current by immediate output shutdown.

The unit can be monitored and remotely controlled by a Software (ModBus-RTU and SCPI capable) and via a USB port which is equipped as standard. Additional it can be implemented in the own test and lab. Remote control of a device can be done either by the included software or by a custom application.

Energy efficiency: Auto ranging, high efficiency, temperature regulated fans (320W)

Scope of delivery:

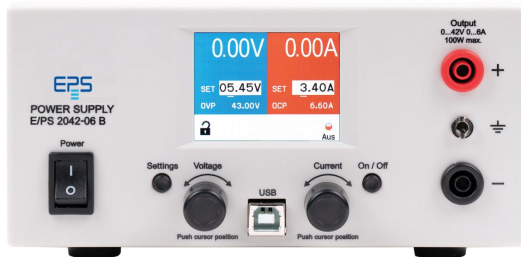
Power Supply

Test report

Mains cable (Schuko+UK plug)

USB-stick with manual and software

E/PS 2042-20B Laboratory Power Supply



EPS 2000b_tft_single_front

General data

Technology	Switching
Operation modes	CV. CC
Mains	90-264 VAC
Input frequency	45-65Hz
Power factor	>0,99
Display	TFT display
Voltage resolution	0,01V
Voltage accuracy	$\leq 0,2\%$
Voltage Stability Load	$< 0,15\%$
Voltage Stability Mains	$< 0,02\%$
Response time Voltage	$< 2\text{ms}$ (10-90%)
Rise time Voltage	10-90% $U_{\text{max}} \sim 165\text{ms}$
Current Resolution	0,01A
Current Accuracy	$\leq 0,3\%$
Current Stability Load	$< 0,05\%$ (0-100%)
Current Stability Mains	$< 0,15\%$ (+-10%)
Output Current Limitation	Standard
Overheat protection	Standard
Protection class	1
Cooling	Fan
Operation temperature	0-50°C
Storage temperature	-20...70°C
Design	Desktop
Standards	EN61010-1, EN 61326, EN 55022 C.B
Output Preset	Standard

Interfaces

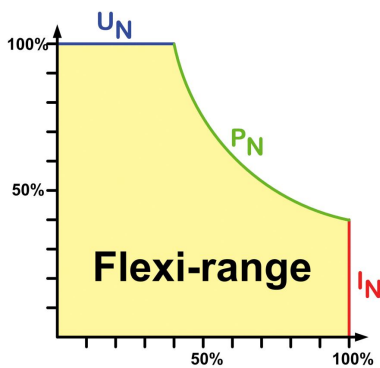
USB Interface	Standard
Software	Standard EPS/PC, Option EPS/MC

Technical data

Output Voltage	0-42 VDC
Output Current	0-20 A
Output Power	320 W
Efficiency	85%
Ripple U	<150mVpp/<2mVrms
Ripple I	<15mApp/6mArms
Dimensions in mm (WxHxD)	174 x 82 x 320
Weight	2,6 kg
Order code	200412

Options

Option 1	Calibration with protocol EPS/2000B CAL
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Flexi-range

Subject to modification without notice, errors and omissions excepted

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