EPS - Datasheet

Series E/PS 9000-3U

The electronic high performance power supplies of the »E/PS 9000 3U« series of EPS Electronic Power Supplies are especially suitable for test systems and industrial controls due to their compact construction in a 19" enclosure with 3 height units (3U).
DC output voltages between 0-40V (SELV) and 0-1500V, output currents between 0-40A and 0-510A and output power ratings of 0- 3.3kW/5kW/6.6kW/10kW/15kW are available.

Actual values, set values, status and alarms are clearly represented on coloured TFT display.
For remote control using a PC or PLC the devices are provided as standard with an Ethernet and USB-B slot on the rear side as well as a analog interface. All interface are galvanically isolated to the unit up to 1500V DC.
Thus the power supplies may, for example, be operated with other power supplies or even other types of equipment or controlled by a PC or PCL, all using the digital interfaces.

In addtion, the devices offer as standard the parallel switching in Shared Bus operation for constant current sharing and for extension of the total power of up to 150kW and up to 5100A per 42U rack.
Also you have the possibility to connect the compatible power supplies via a Shared Bus, in order to create a so-called two-quadrant system. Typical applications i.e. for the source-sink principle are: battery test with automatic charge and discharge cycles, automotive electronic tests with simulation of transients (like voltage break-ins during engine starts) and cyclic charging and discharging of capacitors. A series operation is also possible with max. potential shift of 400V against PE on any DC minus pole.

All models are controlled by microprozessors. These enable an exact and fast measurement and display of actual values.
With the lock push button the controls can be locked, in order to protect the equipment from unintentional misuse.

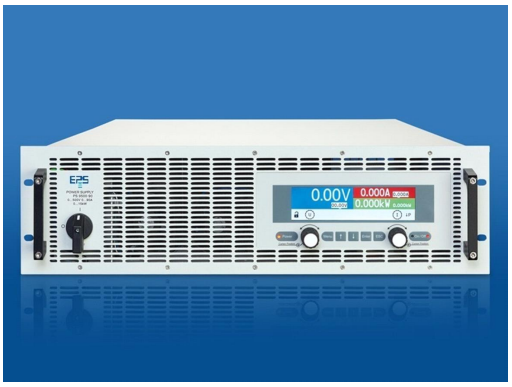
Models with a nominal output voltage of 200V or higher include a discharge circuit for the output capacities. For no load or low load situations, it ensures that the dangerous output voltage can sink to under 60V DC in max. 10 seconds after the DC output has been switched off (SELV according to EN60950).

Further options are GPIB (Ethernet eliminates this), water cooling (up to 200V) and calibration with protocol.

Energy efficiency: Auto-ranging, high efficiency, temperature controlled fans

Scope of delivery:
Power Supply Unit
Test report
AC-plug 5 pole
Share bus plug
Remote Sensing plug
1,8m USB cable
Set of DC-terminal cover
USB-Stick with manual and Software

E/PS 9080-170-3U
Laboratory Power Supply



E/PS 9000-3U

General datas

Technology	Switching
Operation modes	CV. CC. CP
Mains	340-460 VAC, 2ph
Input frequency	45-65Hz
Power factor	>0,99
Display	TFT
Voltage resolution	0,01 V
Voltage accuracy	<=0,1%
Voltage Stability Load	<0,05% (0-100%)
Voltage Stability Mains	<0,02% (+-10%)
Response time Voltage	<1,5ms (10-100%)
Rise time Voltage	max.30ms (10-90%)
High Speed	Option EPS/HS-5
Current Resolution	0,1 A
Current Accuracy	<=0,2%
Current Stability Load	<0,15% (0-100%)
Current Stability Mains	<0,05% (+-10%)
Output Current Limitation	Standard
Power Accuracy	<1%
Overvoltage category	2
Overheat protection	Standard
Isolation In-/Output	2500V DC
Isolation Output/Enclosure	400V DC
Protection class	1
Series operation	Standard (400V max.)

Series E/PS 9000-3U

Master-Slave Series operation	Standard
Parallel operation	Master-Slave
Current sharing	Standard
Cooling	Fan
Operation temperature	0-50°C
Storage temperature	-20...70°C
Humidity	<80% n.c
Attitude	<2000m
Design	19 inch
Standards	EN 61010-1, EN 61326, IEC61000-6-2:2005/6 class B
Power fail	Standard
Output Preset	Standard
Memory	5 Presets

Interfaces

Analog Isolation	Standard
Accuracy Interface	U=1.5mV I=3.5mA P=0.27W
USB Interface	Standard
GBIP Interface	Option E/PS9000 3W
Ethernet Interface	Standard
Software	Standard EPS/PC

Technical datas

Output Voltage	0-80 VDC
Output Current	0-170 A
Output Power	0-5000 W
Efficiency	93%
Ripple U	<200mVpp/<16mVrms
Ripple I	<80mArms
Remote Sensing	Standard
Dimensions in mm (WxHxD)	19" x 133 x 609
Weight	17 kg
Order code	102582

Options

Option 1	Calibration with protocoll EPS/I9000 CAL
Option 2	Extended Warranty 3 / 5 years EPS/G
Option 3	Watercooling EPS/WC

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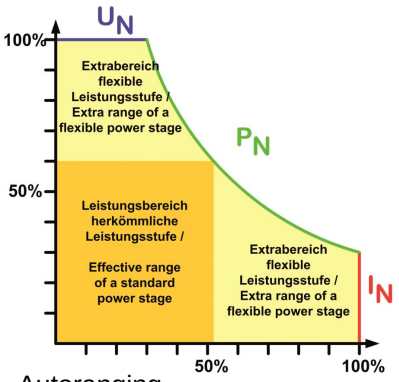
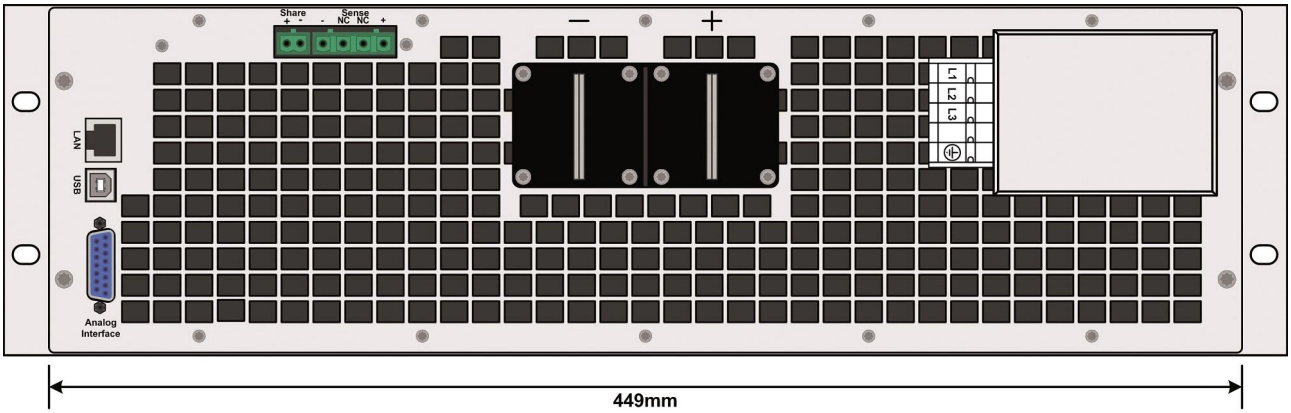


Autoranging



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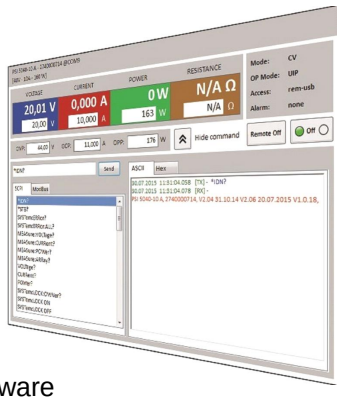

EPS/PC_Software

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