

EPS - Datasheet

Series E/PS 10000 3U

EPS's Electronic Power Supplies »E/PS 10000 3U« series programmable power supplies are especially suitable for test systems and industrial controls, but also for laboratories and repair shops, due to their compact construction in a 19" enclosure with 3U height units. DC output voltages between 0-60V and 0-2000V, output currents between 0-20A and 0-510A and output power ratings 5/10/15kW are available. The very high efficiency is up to 96%.

All models are controlled by microprocessors for fast and exact measurement and display of actual values. Setpoints and actual values, status displays and messages are clearly displayed on an intuitive 5" TFT touch panel. The devices feature a manually callable, An HMI operated visual depiction of the temporal run of the actual values of voltage, current and power, called the GRAPH, is possible.

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For remote control the devices are provided as standard with Ethernet, USB port on the back as well as a galvanically isolated analog interface. Via optional plug-in inerface modules, other digital interfaces such as Profibus, ProfiNet, Modbus TCP, CAN, CANopen, EtherCAT or RS232 can be added. These enable the devices to be connected to standard industrial buses simply by replacing or adding a small module. The configuration, if necessary at all, is simple. 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 PLC, all using the digital interfaces.

The data recording can be done on USB stick (logging). All interfaces are isolated to the unit with 1000V DC (up to 360V output) and with 2000V DC (more than 500V output).

In addition, the devices offer as standard the possibility for parallel connection in Share bus operation for constant current sharing plus a genuine master-slave connection with totaling of the slave units is also provided as standard. Using this operating mode, up to 64 devices can be connected to form a system that offers an increased total output of up to 960 kW.

The devices are CE, UL as well as CSA certified.

Further options are the calibration with protocol, warranty extension and 19" racks.

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

Scope of delivery:
Power Supply Unit
Test report
AC connector plug (clamp type)
Set for AC cable strain relief
Set DC terminal cover
2x Plug for Remote Sense
Terminal cover sense
USB cable 1,8m
USB-Stick with documentation and Software



E/PS 12000-20 3U Laboratory Power Supply



E/PS 10000 3U

General data

Technology	Switching
Operation modes	CV. CC. CP, CR
Mains	380V/400V/480V AC +-10% 3ph., 208V derating 9 kW
Input frequency	45-65Hz
Power factor	>0,99
Display	TFT Touch Panel 5"
Voltage resolution	0,1 V
Voltage accuracy	<=0,05% fs
Voltage Stability Load	<0,05% (0-100%)
Voltage Stability Mains	<0,01% (+-10%)
Response time Voltage	<1,5ms (10-100%)
Rise time Voltage	max.20ms (10-90%)
Current Resolution	0,01 A
Current Accuracy	<=0,1% fs
Current Stability Load	<0,1% (0-100%)
Current Stability Mains	<0,05% (+-10%)
Rise time Current	max.10ms (10-90%)
Output Current Limitation	Standard
Power Accuracy	<1%
Overvoltage category	2
Overheat protection	Standard
Isolation In-/Output	3750V DC
Isolation Output/Enclosure	neg.+-1500V, pos.+-2000V DC max.
Protection class	1
Parallel operation	Master-Slave



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Series <u>E/PS 10000 3U</u>

Standard
Fan
0-50°C
-2070°C
<80% n.c
<2000m
19 inch
EN/UL/CSA-C22.2 61010-1,EN55011 cl.B,EN61326-1
Standard
Standard
5 Presets
60μF

Interfaces

Analog Isolation	Standard
Accuracy Interface	0-10V <= 0.2%; 0-5V <=0.4%
USB Interface	Standard
RS232 Interface	Option EPS/IF-AB R
CAN Interface	Opt.EPS/IF-AB-CAN/O
Profibus	Option EPS/IF-AB PB
Ethernet Interface	Standard, Opt.IF-ETH2P
Ethercat Interface	Option EPS/IF-AB-ECT
Software	Standard EPS/PC, Option EPS/MC

Technical data

Output Voltage	0-2000 VDC
Output Current	0-20 A
Output Power	0-15000 W
Input Current	3x 28A
Efficiency	<=95,5%
Ripple U	2400mVpp(20Mhz)/400mVrms(300k)
Ripple I	<26mArms
Resistance Adjustment Range 1	3,55300 Ohm
Resistance Resolution Range 1	0,1 Ohm
Remote Sensing	Standard
Dimensions in mm (WxHxD)	19" x 133 x 668
Weight	32,8 kg
Order code	200900

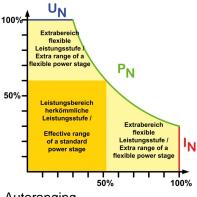
Options

Option 1	Calibration with protocoll EPS/I10000 CAL
Option 2	Extended Warranty 2 / 3 / 5 years EPS/Gx
Option 3	Modbus Interface 1/2 Port EPS/IF-AB MB1P/2P
Option 5	EPS/BNC Cable Share-Bus connection cable
Option 6	EPS/SL 4x 2x AWG Master-Slave patch cable





E/PS 10000 3U_rear



Autoranging



EPS/PC_Software



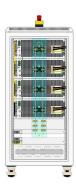


EPS 10000 Graph (HMI)



EPS_Cabinet front example 120kW





EPS_Cabinet rear example 120kW

Subject to modification without notice, errors and omissions excepted

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