

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 10200-70 3U Laboratory Power Supply



E/PS 10000 3U

General data

Switching
CV. CC. CP, CR
380V/400V/480V AC +-10% 3ph., 208V derating 3 kW
45-65Hz
>0,99
TFT Touch Panel 5"
0,01 V
<=0,05% fs
<0,05% (0-100%)
<0,01% (+-10%)
<1,5ms (10-100%)
max.20ms (10-90%)
0,01 A
<=0,1% fs
<0,1% (0-100%)
<0,01% (+-10%)
max.2ms (10-90%)
Standard
<1%
2
Standard
3750V DC
neg.+-1000V/pos.+1000V DC max.
1
Standard (400V max.)



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

Master-Slave Series operation	Standard
Parallel operation	Master-Slave
Current sharing	Standard
Cooling	Fan
Operation temperature	0-50°C
Storage temperature	-2070°C
Humidity	<80% n.c
Attitude	<2000m
Design	19 inch
Standards	EN/UL/CSA-C22.2 61010-1,EN55011 cl.B,EN61326-1
Power fail	Standard
Output Preset	Standard
Memory	5 Presets
Capacity	2520μF

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	0-200 VDC
Output Current	0-70 A
Output Power	5kW/ 3kW derating
Input Current	2x 16A
Efficiency	<=94,5%
Ripple U	300mVpp(20Mhz)/40mVrms(300k)
Ripple I	<22mArms
Resistance Adjustment Range 1	0,1160 Ohm
Resistance Resolution Range 1	0,01 Ohm
Remote Sensing	Standard
Dimensions in mm (WxHxD)	483 x 133 x 668
Weight	18 kg
Order code	200872

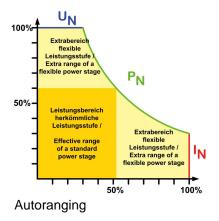
Options

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





EPS/PC_Software



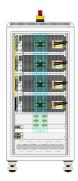


EPS 10000 Graph (HMI)



EPS_Cabinet front example 120kW





EPS_Cabinet rear example 120kW

Subject to modification without notice, errors and omissions excepted

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