

#### **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 10080-170 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%)
0,1 A
<=0,1% fs
<0,1% (0-100%)
<0,01% (+-10%)
max.2ms (10-90%)
Standard
<1%
2
Standard
3750V DC
neg.+-600VDC, Pos.+600VDC max.
1
Standard (400V max.)



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

Standard
Master-Slave
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
7790µF

### **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	0-80 VDC
Output Current	0-170 A
Output Power	5kW/ 3kW derating
Input Current	2x 16A
Efficiency	<=94,5%
Ripple U	100mVpp(20Mhz)/10mVrms(300k)
Ripple I	<80mArms
Resistance Adjustment Range 1	0,01626 Ohm
Resistance Resolution Range 1	0,001 Ohm
Remote Sensing	Standard
Dimensions in mm (WxHxD)	483 x 133 x 668
Weight	18 kg
Order code	200871

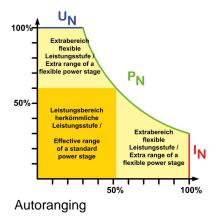
## **Options**

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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