

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

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.

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

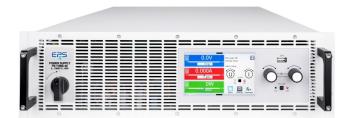
Scope of delivery: Power Supply Unit Test report AC connector plug (clamp type) Set for AC cable strain relief Set DC terminal cover 2x Plug for Remote Sense Terminal cover sense USB cable 1,8m USB-Stick with documentation and Software



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E/PS 10060-340 3U Laboratory Power Supply



E/PS 10000 3U

General data

Behavior	Unidirectional				
Technology	Switching				
Operation modes	CV. CC. CP, CR				
Mains	380V/400V/480V AC +-10% 3ph., 208V derating 6 kW				
Input frequency	45-65Hz				
Power factor	>0,99				
Display	TFT Touch Panel 5"				
Voltage resolution	0,01 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	0,1 A				
Current Accuracy	<=0,1% fs				
Current Stability Load	<0,1% (0-100%)				
Current Stability Mains	<0,01% (+-10%)				
Rise time Current	max.2ms (10-90%)				
Output Current Limitation	Standard				
Power Accuracy	<1%				
Overvoltage category	2				
Overheat protection	Standard				
Isolation In-/Output	3750V DC				
Isolation Output/Enclosure	neg.+-600VDC, Pos.+600VDC max.				
Protection class	1				



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Series operation	Standard (400V max.)			
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	15980µF			

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	0-60 VDC				
Output Current	0-340 A				
Output Power	10 kW/ 6kW derating				
Input Current	2x28,1x16A				
Efficiency	<=94,5%				
Ripple U	100mVpp(20Mhz)/10mVrms(300k)				
Ripple I	<120mArms				
Resistance Adjustment Range 1	0,00813 Ohm				
Resistance Resolution Range 1	0,001 Ohm				
Remote Sensing	Standard				
Dimensions in mm (WxHxD)	483 x 133 x 668				
Weight	25,4 kg				
Order code	200881				

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

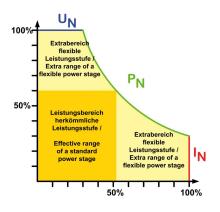


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E/PS 10000 3U_rear



Autoranging



EPS/PC_Software



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140.0V _{cv} 15.0	00A	1680W	Alarm: Keine	r
U (V) 625.0			I (A) 100.0	P (W) 3750
562.5			90.0	3375
500.0			80.0	3000
437.5			70.0	2625
375.0			60.0	2250
312.5			50.0	1875
250.0			40.0	1500
187.5			30.0	1125
125.0			20.0	750
62.5			10.0	375
0.0				0
C Default Default	it 🔪 🤇	Default >	500ms/DIV	■

EPS 10000 Graph (HMI)



EPS_Cabinet front example 120kW



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EPS_Cabinet rear example 120kW

Subject to modification without notice, errors and omissions excepted

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