



## EPS - Datasheet

### Series EPS/PU 10000 4U

EPS's Electronic Power Supplies »EPS/PU 10000 4U« series new electronic high performance ATE power supplies are especially suitable for test systems and industrial controls due to their compact construction in a 19" enclosure with 4 height units (U). DC output voltages between 0-60V (SELV) and 0-2000V, output currents between 0-40A and 0-1000A with an output power of 30kW-1920kW are available.

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

The devices in series EPS/PU 10000 4U represent matching models to series E/PS 10000 4U or E/PSI 10000 4U. They serve as extension modules, so called power units, which are intended to build master-slave systems with higher total power. Devices from series E/PSI 10000 or E/PS 10000, which both have a TFT touch display, can serve as master unit, but all EPS/PU 10000 4U can also serve as master for other 10000 series power supplies should the control be solely remote.

Optionally there are also a water-cooled version available which are usually configured and offered in cabinet systems with a complete water-cooling distribution inside. For DIY water-cooled systems, single units can also be obtained upon request.

Further options are calibration with protocol and extended warranty.

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

Energy efficiency: Auto-ranging, high efficiency, temperature controlled fans, water cooling system

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

## EPS/PU 12000-40 4U Power Supply without display

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EPS/PU\_10000\_4U\_front

### General data

|                            |   |
|----------------------------|---|
| Behavior                   | Unidirectional                                    |
| Technology                 | Switching   |
| Operation modes            | CV. CC. CP. CR                                    |
| Mains                      | 380V/400V/480V AC +-10% 3ph., 208V derating 18 kW |
| Input frequency            | 45-65Hz   |
| Power factor               | >0,99   |
| Voltage Stability Load     | <0,05% (0-100%)                                   |
| Voltage Stability Mains    | <0,01% (+-10%)                                    |
| Response time Voltage      | <1,5ms (10-100%)                                  |
| Rise time Voltage          | max.10ms (10-90%)                                 |
| Current Stability Load     | <0,1% (0-100%)                                    |
| Current Stability Mains    | <0,05% (+-10%)                                    |
| Rise time Current          | max.2ms (10-90%)                                  |
| Output Current Limitation  | Standard  |
| Overvoltage category       | 2   |
| Overheat protection        | Standard  |
| Isolation In-/Output       | 3750V DC  |
| Isolation Output/Enclosure | neg.+1500V DC, pos.+2000V DC max.                 |
| Protection class           | 1   |
| 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/UL/CSA-C22.2 61010-1,EN55011 cl.B,EN61326-1 |
| Power fail    | Standard                                       |
| Output Preset | Standard                                       |
| Capacity      | 50 $\mu$ F                                     |

**Interfaces**

|                    |                                     |
|--------------------|-------------------------------------|
| Analog Isolation   | Standard                            |
| Accuracy Interface | 0-10V $\leq$ 0.2%; 0-5V $\leq$ 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**

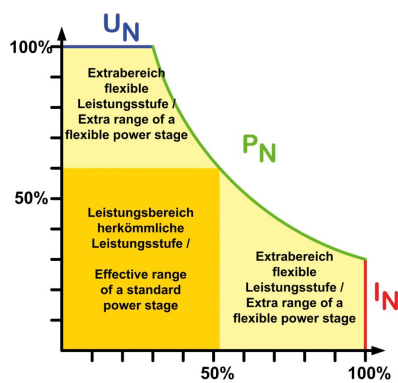
|                          |                                |
|--------------------------|--------------------------------|
| Output Voltage           | 0-2000 VDC                     |
| Output Current           | 0-40 A                         |
| Output Power             | 0-30000 W                      |
| Input Current            | 56A@400V                       |
| Efficiency               | 96,5%                          |
| Ripple U                 | 2400mVpp(20Mhz)/400mVrms(300k) |
| Ripple I                 | <26mArms                       |
| Remote Sensing           | Standard                       |
| Dimensions in mm (WxHxD) | 483 x 178 x 668                |
| Weight                   | 50 kg                          |
| Order code               | 202209                         |

**Options**

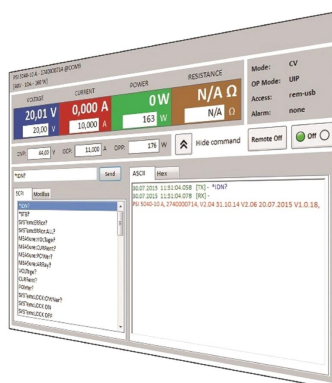
|          |   |
|----------|---|
| Option 1 | Calibration with protocoll EPS/I10000 CAL |
| Option 2 | Extended Warranty 2 / 3 / 5 years EPS/Gx  |
| Option 4 | EPS/WC-30 kW Water cooler                 |
| Option 5 | EPS/BNC Cable Share-Bus connection cable  |
| Option 6 | EPS/SL 4x 2x AWG Master-Slave patch cable |



EPS/PUx 10000\_4U rear



Autoranging



EPS/PC\_Software



EPS/PUx 10000 Rack rear

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Subject to modification without notice, errors and omissions excepted

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