

THE WHOLE WORLD OF POWER SUPPLY

DESCRIPTION



Analog ISO

Isolated Analog Interface



Modbus

Digital controlling and connection to devices via Modbus protocol



IEEE

GP-IB, IEEE-488, digital controlling and connection to devices via IEC-612 protocol



DeviceNet

Fieldbus technology based on CAN-Bus



Profibus

Profibus(R), fieldbus technology, standard in automation technology



RS485

Serial Bus technology with symetric signal transfer



Analog

Controlling and Monitoring with a voltage or current signal (0-10V, 4-20mA)



LAN

Digital controlling and connection to devices via TCP/IP protocol



Profinet

Profinet(R), open standard Industrial Ethernet, real time communication, use of TCP/IP protocol



CAN

Serial Bus technology, standard in automotive and industrial applications



USB

Serial Bus technology, easy to use to connect devices directly to a computer



RS232

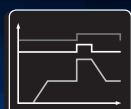
Serial, digital control protocol, point-to-point connections only



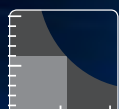
standard



option



Function generator



Autoranging

OVP Over Voltage Protection
OCP Over Current Protection
OPP Over Power Protection
OTP Over Temperature Protection
UVP Undervoltage Protection



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Subject to change

The contents of this catalogue were compiled with the utmost care and comply with our actual level of information. All previous catalogs are invalid with this 8. edition. Pictures of the devices are partly exemplary and not available for all device series. Deviations are possible.

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EPS – THE WHOLE WORLD OF POWER SUPPLY

Providing world-wide representation, individual technical and commercial support - EPS Electronic Power Supplies leads the way.

FLEXIBLE: You decide the output, we scale the unit to match
ECONOMIC: The price/performance ratio ensures ultra-fast amortisation
PRICE-STABLE: You can rely on our prices. For a whole 12 months*
INNOVATIVE: All units conform to the very latest state of the art
PERFECTLY FINISHED: Quality components + precise finishing = above-average expected life
SOPHISTICATED IN DESIGN: Form and function in perfect harmony

* excluding price changes due to currency fluctuations

As a specialist for Power Supplies for more than 20 years we are able offer to our customers an extensive product spectrum for all applications.

We offer, in addition to our large Portfolio of established and high-quality standard solutions, customized modifications of our devices and realize even the most demanding and individually tailored custom made solutions.

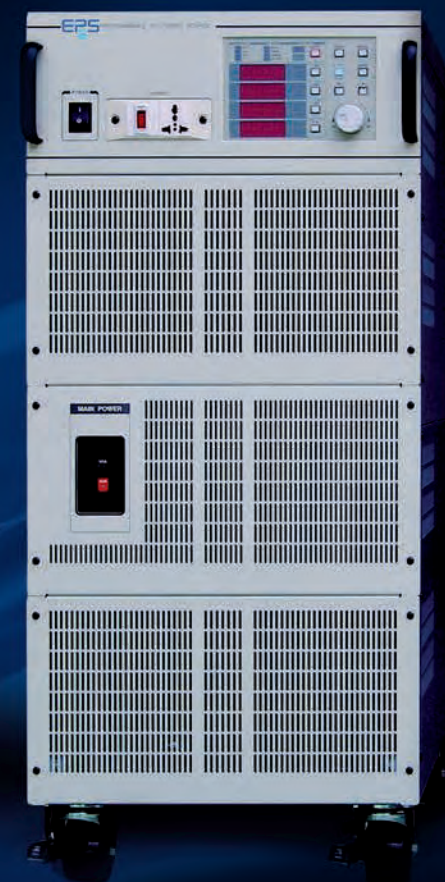
We look not only to today's market requirements, but watch for trends and opportunities in the market of tomorrow. With our experience of many years and our specialized technical knowledge we are incorporating innovative technologies to improve energy efficiency – for example with mains power feedback systems – in order to make our contribution to the environment protection.

Customer satisfaction has the highest priority in our company. Our world-wide network of trade partners guarantees competent and individually tailored advice and support of our customers – locally. This includes after sales support, too.

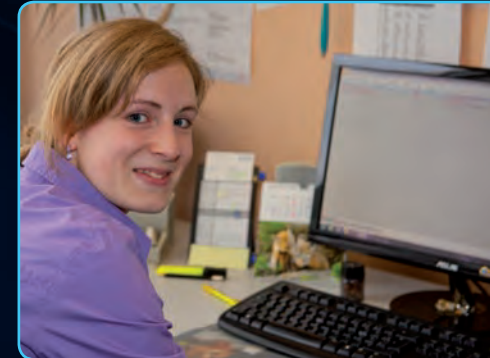


Our eCommerce platform offers user-friendly product information with detailed data sheets, which are available 24/7 and with our easy-to-use search functions you will find the perfect power supply for your application in no time at all.

With our in depth product knowledge we can provide industry-specific, individually adapted concepts in dialogue with our customers and convert to perfect total solutions. We have experience of applications in fields of Automotives, Lighting, Renewable Energy, Industrial, Medical and Home Appliance, etc. which will benefit you by minimizing development times and providing maximum possible added value.



EPS – OUR PROFILE



EPS stands for professionalism, reliability and customer friendliness. Optimize your Power Supply - with us!

Our position

- Germany - Prominent supplier of Power Supplies
- European-wide cover by selected representatives



Our vision

- We work every day for a better future
- We are developing solutions for tomorrow's market
- We produce and sell sustainable products

Our attitude

- We aim to not only satisfy the users of our products with our efficiency, quality and equipment, but to inspire.



Our aim

- We maintain a partnership relationship with our customers and business partners
- We continually develop solutions for the future with our customers and business partners - world wide!



ACROSS THE GLOBE you can rely on our network. The **SATISFACTION** of our customers is paramount. We offer valuable and **COMPETENT** advice during all important stages of project development and manufacture. The dialogue with our customers **MATTERS TO US**. We have **COMPREHENSIVE** know-how in all product ranges. We want to **ENTHUSE** our customers – not just satisfy them.

HOW TO FIND YOUR POWER SUPPLY?

3 steps to the right unit! This will help you to make sense of our wide range of products and quickly find your way to the unit that suits your needs best.

Step 1: Choose the features you require

We have marked each series with a symbol. First, specify the purpose it is to serve and the features required. For the description of the symbols, see next page.

Step 2: Select the correct power range

The power ratings can be found in the first line of the key features as well as in the table.

E/PSI 9000-2U

- 19" Power Supplies/Battery Charger with 1000W, 1500W, 3000W up to 45.000W
- Intuitive graphic TFT Touchpanel
- Microprocessor controlled
- Integrated arbitrary function generator
- Internal resistance simulation and regulation
- Photovoltaic array and fuel cell simulation
- Protection: OVP, OCP, OPP, OTP, alarm management
- 40V models according to SELV (EN 60950)
- Warranty extension optional

Step 3: Select the mechanical design

A description of the housing types is given in the first line of the key features. Our example images often show how the unit can be used or installed. There are units for the lab bench, for the 19" rack, to be fitted on a wall or plate or snapped onto the DIN mounting rail. For many units installation accessories are optionally available.

Having gone through these 3 steps of selection, you will have found the right series. Now, select the correct voltage and current range and have YOUR device. Detailed information is available from the **Webcode** in the search function on our website www.eps-germany.de. You can also download a data sheet and learn all details about the unit of your choice. Now you only need to contact your trade partner and YOUR unit of choice will soon be on your desk.

If you have any further questions, please do not hesitate to contact the **EPS-Hotline +49-(0)821-570451-0** or send us your questions via e-mail sales@eps-germany.de

DESCRIPTION EPS Lines

In order to assist you in selecting your power supply, we have marked the series with different symbols.



INTELLIGENCE IQ Line

The IQ symbol marks state-of-the-art, high-end units which set new standards. Very extensive basic equipment is already included such as, in many cases, a color touch-screen, a function as well as an arbitrary waveform generator and integrated interfaces. These units are carefully thought out to the last detail and have a very good scalability and connectivity. The use of external measuring equipment is usually no longer necessary so you are going to save a lot on the purchase price as well. With these units you are optimally equipped for all tasks now and in the future.



STANDARD S-Line

The S-Line symbol stands for solid, proven standard technology with very good basic equipment. All important functions are integrated or can be chosen individually from the many options available for retrofitting. These units will assist you in your daily work life and provide you with the most important functions and equipment. So you will be able to perform your tasks in the laboratory or in the test bay comfortably and quickly. The S-Line symbolizes efficient equipment with many options for upgrading at a reasonable price.



ECONOMIC E-Line

The E-line offers basic units that have a somewhat limited basic equipment at a very good price/performance ratio. The basic idea of this series was to cut out everything you normally don't need in everyday work life. However, you still don't have to give up on solid, reliable technology. These units are the „workhorses“ in the industry or in the laboratory.



PROFESSIONAL P-LINE

The P-Line stands for „Technology for Professionals“. These units are mainly used in automation technology and in test benches. They are often available with an extended temperature range, tropical protection, increased vibration resistance, etc. Mostly you will find the power supply permanently installed in control cabinets, in the train or even in an airplane. Reliability under tough ambient conditions is paramount with the P-line.

E/PSI 9000-2U
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page 13E/PSI 8000-3U
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page 17E/PSI 8000-T
page 18E/PSI 800-R
page 19

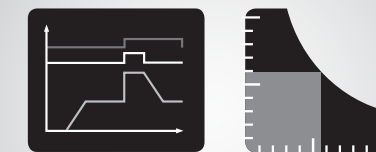
New series

IQ
Line**E/PSI 9000-2U**

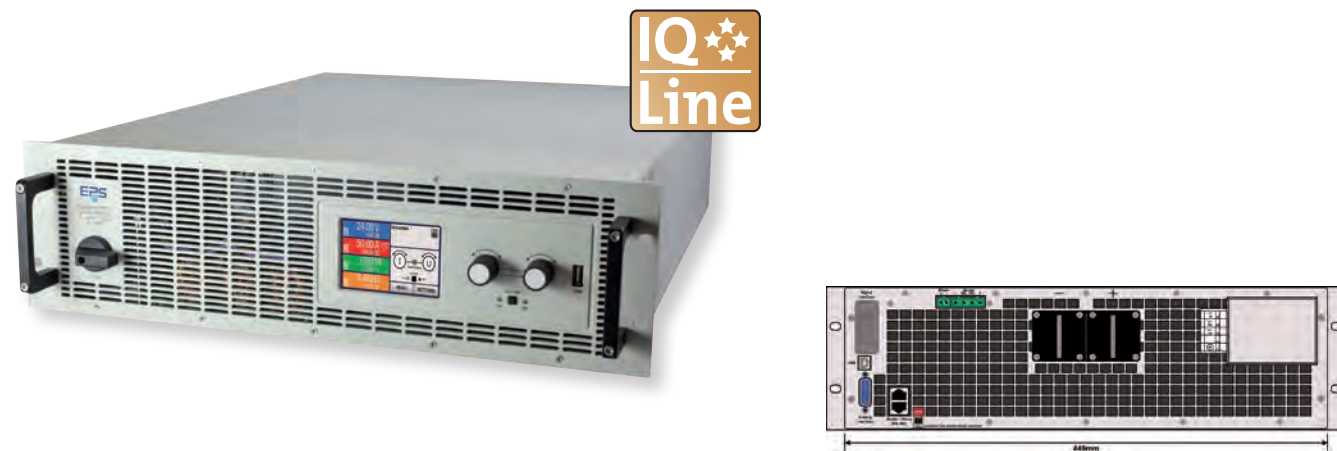
- 19" Power Supplies/Battery Charger with 1000W, 1500W, 3000W up to 45.000W
- Intuitive graphic TFT Touchpanel
- Microprocessor controlled
- Integrated arbitrary function generator
- Internal resistance simulation and regulation
- Photovoltaic array and fuel cell simulation
- Protection: OVP, OCP, OPP, OTP, alarm management
- 40V models according to SELV (EN 60950)
- Warranty extension optional

The E/PSI 9000 series is equipped with all conceivable features. In this line of devices the most innovative operating concept meets tried-and-trusted power electronics. This technology is second to none. The illuminated TFT touch panel gives you an overview of all the states of the device, be it the target values or actual values or the various modes, dispatches and alarms. It also comprises an arbitrary generator with which you can enter your sequences either via the touch panel or easily read in the data via USB flash drive. In the menu you can define all important monitoring and alarm functions for the output values for voltage and current. By means of the master-slave bus the devices can be scaled up to power stations with up to 150 kW total power with totals formation according to your demands. By numerous analog and digital interfaces you control the devices comfortably via PC or PLC.

Power	Voltage	Current	WxHxD (mm)	Model	Webcode
0-1000W	0-40V DC	0-40A	19"x2Ux460	E/PSI 9040-40 2U	102673
0-1000W	0-80V DC	0-40A	19"x2Ux460	E/PSI 9080-40 2U	102617
0-1000W	0-200V DC	0-15A	19"x2Ux460	E/PSI 9200-15 2U	102618
0-1000W	0-360V DC	0-10A	19"x2Ux460	E/PSI 9360-10 2U	102619
0-1000W	0-500V DC	0-6A	19"x2Ux460	E/PSI 9500-06 2U	102620
0-1000W	0-750V DC	0-4A	19"x2Ux460	E/PSI 9750-04 2U	102621
0-1500W	0-40V DC	0-60A	19"x2Ux460	E/PSI 9040-60 2U	102674
0-1500W	0-80V DC	0-60A	19"x2Ux460	E/PSI 9080-60 2U	102622
0-1500W	0-200V DC	0-25A	19"x2Ux460	E/PSI 9200-25 2U	102623
0-1500W	0-360V DC	0-15A	19"x2Ux460	E/PSI 9360-15 2U	102624
0-1500W	0-500V DC	0-10A	19"x2Ux460	E/PSI 9500-10 2U	102625
0-1500W	0-750V DC	0-6A	19"x2Ux460	E/PSI 9750-06 2U	102626
0-3000W	0-40V DC	0-120A	19"x2Ux460	E/PSI 9040-120 2U	102675
0-3000W	0-80V DC	0-120A	19"x2Ux460	E/PSI 9080-120 2U	102631
0-3000W	0-200V DC	0-50A	19"x2Ux460	E/PSI 9200-50 2U	102627
0-3000W	0-360V DC	0-30A	19"x2Ux460	E/PSI 9360-30 2U	102628
0-3000W	0-500V DC	0-20A	19"x2Ux460	E/PSI 9500-20 2U	102629
0-3000W	0-750V DC	0-12A	19"x2Ux460	E/PSI 9750-12 2U	102630

**Optional**

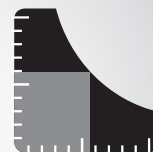
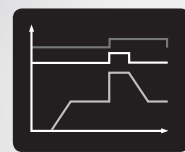
- High speed mode
- Calibration
- 2-Quadrant-operation
- Expended Software
- Battery simulation



E/PSI 9000-3U

- 19" Power Supplies and/or chargers with
- 3.3kW, 5kW, 6.6kW, 10 and 15kW up to 150kW
- Intuitive graphic TFT Touchpanel
- Microprocessor controlled
- Internal resistance simulation and regulation
- Photovoltaic array and fuel cell simulation
- Optional: High speed mode
- Protection: OVP, OCP, OPP, OTP, alarm management
- 40V models according to SELV (EN 60950)
- High efficiency factor up to 95,5%
- Warranty extension optional

Power	Voltage	Current	WxHxD (mm)	Model	Webcode
0-3300W	0-40V DC	0-170A	19"x3Ux609	E/PSI 9040-170 3U	102561
0-5000W	0-80V DC	0-170A	19"x3Ux609	E/PSI 9080-170 3U	102562
0-5000W	0-200V DC	0-70A	19"x3Ux609	E/PSI 9200-70 3U	102563
0-5000W	0-360V DC	0-40A	19"x3Ux609	E/PSI 9360-40 3U	102564
0-5000W	0-500V DC	0-30A	19"x3Ux609	E/PSI 9500-30 3U	102565
0-5000W	0-750V DC	0-20A	19"x3Ux609	E/PSI 9750-20 3U	102566
0-6600W	0-40V DC	0-340A	19"x3Ux609	E/PSI 9040-340 3U	102567
0-10000W	0-40V DC	0-510A	19"x3Ux609	E/PSI 9040-510 3U	102568
0-10000W	0-80V DC	0-340A	19"x3Ux609	E/PSI 9080-340 3U	102569
0-10000W	0-200V DC	0-140A	19"x3Ux609	E/PSI 9200-140 3U	102570
0-10000W	0-360V DC	0-80A	19"x3Ux609	E/PSI 9360-80 3U	102571
0-10000W	0-500V DC	0-60A	19"x3Ux609	E/PSI 9500-60 3U	102572
0-10000W	0-750V DC	0-40A	19"x3Ux609	E/PSI 9750-40 3U	102573
0-10000W	0-1000V DC	0-30A	19"x3Ux609	E/PSI 91000-30 3U	102574
0-15000W	0-80V DC	0-510A	19"x3Ux609	E/PSI 9080-510 3U	102575
0-15000W	0-200V DC	0-210A	19"x3Ux609	E/PSI 9200-210 3U	102576
0-15000W	0-360V DC	0-120A	19"x3Ux609	E/PSI 9360-120 3U	102577
0-15000W	0-500V DC	0-90A	19"x3Ux609	E/PSI 9500-90 3U	102578
0-15000W	0-750V DC	0-60A	19"x3Ux609	E/PSI 9750-60 3U	102579
0-15000W	0-1500V DC	0-30A	19"x3Ux609	E/PSI 91500-30 3U	102580



- Optional
- High speed mode
 - Water cooling
 - Calibration
 - 2-Quadrant-operation
 - Expanded Software
 - Battery simulation

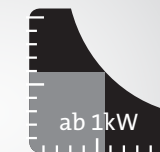
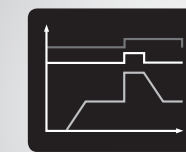


E/PSI 8000-2U

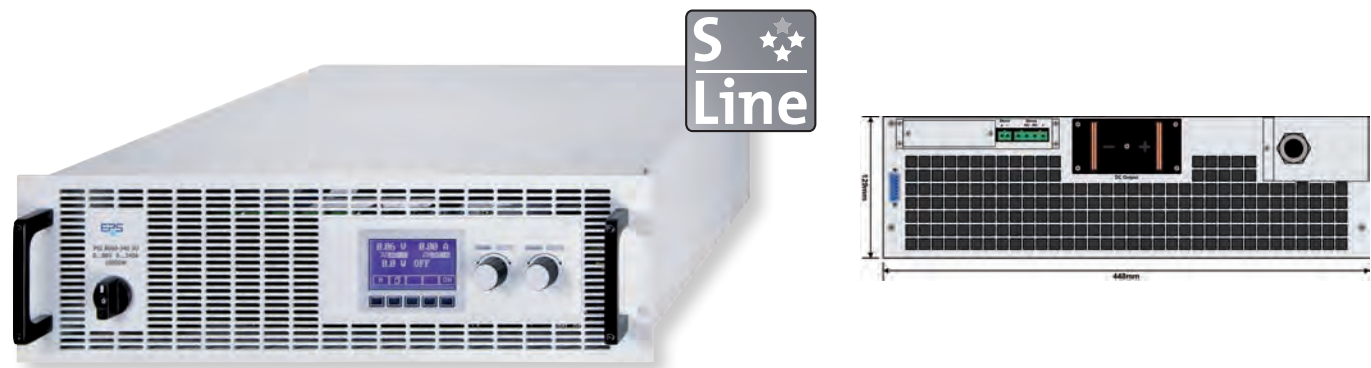
- 19" Power Supplies with 640W, 1000W, 1500 and 3000W
- Graphical display for monitoring and adjustment
- Microprocessor controlled
- Integrated function manager
- Protection: OVP, OTP, alarm management
- Controlling: Div. digital In- /Outputs
- Warranty extension optional

All adjustments are quickly made with the graphical display and the user-friendly, interactive menu system. The illuminated display allows you to read the actual measured values accurately in the dark. Corresponding profiles can be configured and saved for different users or different applications. A built-in function generator makes sequential test tasks a breeze. An optional 2-Quadrant module allows you to perform various standard tests as e.g. DIN 40839 for the automotive industry and helps to generate very short negative edges. Due to the versatile built-in functions you can dispense with additional, expensive measuring equipment and considerably relieve your budget.

Power	Voltage	Current	WxHxD (mm)	Model	Webcode
640W	0-32V DC	0-20A	19"x2Ux380	E/PSI 8032-20-2U	112642
650W	0-65V DC	0-10A	19"x2Ux380	E/PSI 8065-10-2U	112643
640W	0-160V DC	0-4A	19"x2Ux380	E/PSI 8160-04-2U	112644
0-1000W	0-80V DC	0-40A	19"x2Ux460	E/PSI 8080-40-2U	112645
0-1500W	0-40V DC	0-60A	19"x2Ux460	E/PSI 8040-60-2U	123511
0-1500W	0-80V DC	0-60A	19"x2Ux460	E/PSI 8080-60-2U	112646
0-1500W	0-360V DC	0-15A	19"x2Ux460	E/PSI 8360-15-2U	112649
0-3000W	0-40V DC	0-120A	19"x2Ux460	E/PSI 8040-120-2U	123512
0-3000W	0-80V DC	0-120A	19"x2Ux460	E/PSI 8080-120-2U	112647
0-3000W	0-160V DC	0-60A	19"x2Ux460	E/PSI 8160-60-2U	112648
0-3000W	0-360V DC	0-30A	19"x2Ux460	E/PSI 8360-30-2U	112650
0-3000W	0-720V DC	0-15A	19"x2Ux460	E/PSI 8720-15-2U	112651



- Optional
- Internal resistance regulation
 - High speed mode (from 1kW)
 - 2-Quadrant-operation (from 1kW)
 - Calibration



E/PSI 8000-3U

- 19" High performance Power Supplies from 3,3 to 150kW
- Graphical display for monitoring and adjustment
- Microprocessor controlled
- Integrated function manager
- Protection: OVP, OTP, alarm management
- Controlling: Div. digital In- /Outputs
- Warranty extension optional

If the focus of your application is on sufficient constant power, this highly scalable power system is the right choice for you. For highest reliability, a redundant system can be built by combining the single devices. User profiles as well as functional sequences can be easily configured and saved; thereby significantly reducing the adjustment work and increasing the reproducibility of a test at the same time. The adjustable alarm management serves to program upper and lower limits for voltage and current at the output. If an off-limit condition is detected it is only reported at first, then there is a warning (also acoustically) and, as the last step, an alarm is triggered and the output is shut down. This simplifies the test setup and external monitoring can usually be dispensed with.

Power	Voltage	Current	WxHxD (mm)	Model	Webcode
0-3300W	0-40V DC	0-170A	19"x3Ux595	E/PSI 8040-170-3U	123515
0-5000W	0-80V DC	0-170A	19"x3Ux595	E/PSI 8080-170-3U	123249
0-5000W	0-200V DC	0-70A	19"x3Ux595	E/PSI 8200-70-3U	123250
0-5000W	0-500V DC	0-30A	19"x3Ux595	E/PSI 8500-30-3U	123248
0-6600W	0-40V DC	0-340A	19"x3Ux595	E/PSI 8040-340-3U	123513
0-10000W	0-40V DC	0-510A	19"x3Ux595	E/PSI 8040-510-3U	123514
0-10000W	0-80V DC	0-340A	19"x3Ux595	E/PSI 8080-340-3U	123251
0-10000W	0-160V DC	0-170A	19"x3Ux595	E/PSI 8160-170-3U	123252
0-10000W	0-200V DC	0-140A	19"x3Ux595	E/PSI 8200-140-3U	123253
0-10000W	0-400V DC	0-70A	19"x3Ux595	E/PSI 8400-70-3U	123254
0-10000W	0-500V DC	0-60A	19"x3Ux595	E/PSI 8500-60-3U	123247
0-10000W	0-1000V DC	0-30A	19"x3Ux595	E/PSI 81000-30-3U	123255
0-15000W	0-80V DC	0-510A	19"x3Ux595	E/PSI 8080-510-3U	123256
0-15000W	0-200V DC	0-210A	19"x3Ux595	E/PSI 8200-210-3U	123257
0-15000W	0-240V DC	0-170A	19"x3Ux595	E/PSI 8240-170-3U	123258
0-15000W	0-500V DC	0-90A	19"x3Ux595	E/PSI 8500-90-3U	123259
0-15000W	0-600V DC	0-70A	19"x3Ux595	E/PSI 8600-70-3U	123260
0-15000W	0-1500V DC	0-30A	19"x3Ux595	E/PSI 81500-30-3U	123261



- Optional
- Redundancy function
 - High speed mode
 - Water cooling
 - Internal resistance regulation
 - Calibration
 - 2-Quadrant operation



E/PSI 8000-3U-PV

- 19" High performance Power Supplies from 10 to 150kW
- Simulation of solar modules
- Microprocessor controlled
- Integrated function manager
- High speed and PV functionality
- Protection: OVP, OTP alarm management
- Controlling: Div. digital In- /Outputs
- Warranty extension optional

The scalable power system is specially designed for the simulation of the characteristics of solar modules. In this way, for example solar inverters can be developed, tested and inspected. The PV function emulates the typical curve of voltage and power under different lighting situations. The „Maximum Power Point“ (MPP) can be easily determined in connection with an inverter. With exact simulations of different solar panels burn-in and other functional tests are performed quickly and easily.

Power	Voltage	Current	WxHxD (mm)	Model	Webcode
0-10000W	0-1000V DC	0-30A	19"x3Ux595	E/PSI 81000-30-3U-PV	123630
0-15000W	0-600V DC	0-70A	19"x3Ux595	E/PSI 8600-70-3U-PV	123631
0-15000W	0-1500V DC	0-30A	19"x3Ux595	E/PSI 81500-30-3U-PV	123632



- Optional
- Internal Resistance Regulation
 - Calibration



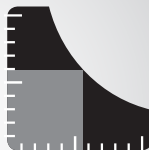
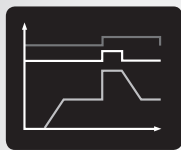
E/PSI 5000

- Desktop Power Supplies with 160W to 640W
- Backlight blue LCD-graphic display
- Microprocessor controlled
- Memory for up to 9 different presets
- Protection: OVP, OCP, OTP
- 40V models according to SELV (EN 60950)
- USB, LAN and Analog Interface integrated

With the graphical display and the user-friendly, interactive menu navigation all adjustments are done quickly. The illuminated display shows the actual and nominal values and the set modes clearly even in poor lighting conditions. For different users or different applications, up to 9 nominal sets can be configured and stored. The integrated monitoring functions warn reliably, if user-defined thresholds are exceeded and switch the output off completely, if necessary. Thanks to the many built-in functions and standard digital interfaces you can do without additional, expensive control and monitoring equipment as well significantly relieve your budget.

Need a demo unit? You will not want to return it.

Power	Voltage	Current	WxHxD (mm)	Model	Webcode
0-160W	0-40V DC	0-10A	200x87x320	E/PSI 5040-10A	102658
0-160W	0-80V DC	0-5A	200x87x320	E/PSI 5080-05A	102659
0-160W	0-200V DC	0-2A	200x87x320	E/PSI 5200-02A	102660
0-320W	0-40V DC	0-20A	200x87x320	E/PSI 5040-20A	102661
0-320W	0-80V DC	0-10A	200x87x320	E/PSI 5080-10A	102662
0-320W	0-200V DC	0-4A	200x87x320	E/PSI 5200-04A	102663
0-640W	0-40V DC	0-40A	200x87x320	E/PSI 5040-40A	102664
0-640W	0-80V DC	0-20A	200x87x320	E/PSI 5080-20A	102665
0-640W	0-200V DC	0-10A	200x87x320	E/PSI 5200-10A	102666



- Optional
- Safety adapter
 - Calibration
 - Arbitrary and function generator

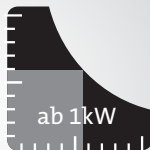
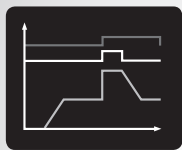


E/PSI 8000-DT

- Innovative laboratory Power Supplies 320W to 1500W
- Backlight graphical display
- Microprocessor controlled
- Integrated function manager
- Alarm management
- Wide input voltage range 90...264V
- Protection: OVP, OTP
- Warranty extension optional

One of the top sellers among the desktop devices. This device combines functional added value and a compact design. By the look of it, it is a simple Power Supply. But as soon as you take a closer look, you will discover features in the interactive menu with the intuitive keypad that help you to work faster and more effectively. The integrated function manager and the advanced monitoring functions render some external devices such as an external function generator unnecessary. With its wide range of interfaces the Power Supply can be put to use in demanding tests and applications. A reliable, proven device that also provides a few extras with a view to future needs.

Power	Voltage	Current	WxHxD (mm)	Model	Webcode
320W	0-16V DC	0-20A	330x118x308	E/PSI 8016-20-DT	123034
320W	0-32V DC	0-10A	330x118x308	E/PSI 8032-10-DT	123035
325W	0-65V DC	0-5A	330x118x308	E/PSI 8065-05-DT	123036
640W	0-32V DC	0-20A	330x118x308	E/PSI 8032-20-DT	123037
650W	0-65V DC	0-10A	330x118x308	E/PSI 8065-10-DT	123038
640W	0-160V DC	0-4A	330x118x308	E/PSI 8160-04-DT	123039
0-1000W	0-80V DC	0-40A	330x118x388	E/PSI 8080-40-DT	123040
0-1000W	0-360V DC	0-10A	330x118x388	E/PSI 8360-10-DT	123042
0-1500W	0-80V DC	0-60A	330x118x388	E/PSI 8080-60-DT	123041
0-1500W	0-360V DC	0-15A	330x118x388	E/PSI 8360-15-DT	123043



- Optional
- High-speed mode from 1kW
 - Internal resistance regulation
 - Carrying handle as tilt stand
 - 19" design
 - Calibration
 - 2-Quadrant operation

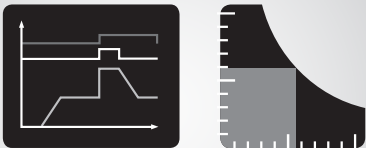


E/PSI 8000-T

- Classical laboratory Power Supply 320W to 1500W
- Four-digit display for voltages and current
- Microprocessor controlled
- Integrated function manager
- Flexible, power regulated output stage from 1kW
- Temperature controlled fans
- Wide input voltage range 90...264V
- Protection: OVP, OTP
- Warranty extension optional

Power	Voltage	Current	WxHxD (mm)	Model	Webcode
320W	0-16V DC	0-20A	90x240x280	E/PSI 8016-20-T	112652
320W	0-32V DC	0-10A	90x240x280	E/PSI 8032-10-T	112653
325W	0-65V DC	0-5A	90x240x280	E/PSI 8065-05-T	112654
640W	0-32V DC	0-20A	90x240x280	E/PSI 8032-20-T	112655
650W	0-65V DC	0-10A	90x240x280	E/PSI 8065-10-T	112656
640W	0-160V DC	0-4A	90x240x280	E/PSI 8160-04-T	112657
0-1000W	0-80V DC	0-40A	90x240x395	E/PSI 8080-40-T	112658
0-1000W	0-360V DC	0-10A	90x240x395	E/PSI 8360-10-T	112660
0-1500W	0-80V DC	0-60A	90x240x395	E/PSI 8080-60-T	112659
0-1500W	0-360V DC	0-15A	90x240x395	E/PSI 8360-15-T	112661

This 90 mm wide Power Supply series is simply the classic on the bench and in the repair shop. There are many new functional features to offer real added value. With this unit you can set and display voltage and power as usual, but once you have discovered the new features by using the interactive menu with the keypad, you will find ways to make your work faster and more effective. Integrated useful tools such as the functional manager and the advanced monitoring functions will assist you with more demanding tasks. For digital communication simply retrofit the required interfaces and control the unit e.g. with your notebook. The combination of reliable quality, high power density and the integrated functions saves valuable space and relieves your budget for other investments.



- Optional
- High speed mode (from 1kW)
 - Internal resistance regulation
 - Calibration



E/PSI 800-R

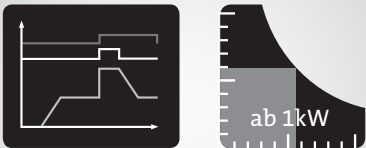
- Power unit with 320W, 640W, 1000W, 1500W and 5000W
- Wall or cabinet mounting
- Graphical display for monitoring and adjustment
- Microprocessor controlled
- Continuous operation with automatic restart
- Protection: OVP, OT
- Div. digital In- and Outputs, plus alarm signals

Specifications only 5kW

- Parallel connection via Share-bus
- Symmetric current sharing up to 10 units
- Water cooling (Option)

Power	Voltage	Current	WxHxD (mm)	Model	Webcode
320W	0-16V DC	0-20A	218x163x83	E/PSI 816-20-R	102389
320W	0-32V DC	0-10A	218x163x83	E/PSI 832-10-R	102390
325W	0-65V DC	0-5A	218x163x83	E/PSI 865-05-R	102391
640W	0-32V DC	0-20A	218x163x83	E/PSI 832-20-R	102392
650W	0-65V DC	0-10A	218x163x83	E/PSI 865-10-R	102393
640W	0-160V DC	0-4A	218x163x83	E/PSI 8160-04-R	102394
1000W	0-80V DC	0-40A	90x360x240	E/PSI 880-40-R	102395
1000W	0-360V DC	0-10A	90x360x240	E/PSI 8360-10-R	102397
1500W	0-80V DC	0-60A	90x360x240	E/PSI 880-60-R	102396
1500W	0-360V DC	0-15A	90x360x240	E/PSI 8360-15-R	102398
5000W	0-80V DC	0-170A	180x530x171	E/PSI 880-170-R	123375
5000W	0-200V DC	0-70A	180x530x171	E/PSI 8200-70-R	123376
5000W	0-500V DC	0-30A	180x530x171	E/PSI 8500-30-R	123377

These power modules with a wide voltage and power range are your option for all applications, where the power in the cabinet is paramount. The power supply operates very efficiently generating very little waste heat. Nevertheless water cooling is optional for the 5kW devices. Thanks to the illuminated display all set and actual values, are easy to read even in a dark cabinet. The protection functions can be set just as easily. The power supplies are 100% short-circuit and overload-proof. The devices can be simply integrated into an automated industrial environment with the optional analog and digital interface cards. Bulk-Power, for a really good price, leaving space for other investments.



- Optional
- Arbitrary and function generator



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E/PS 800-SM
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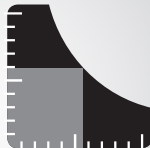
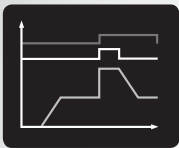


E/PS 9000-1U

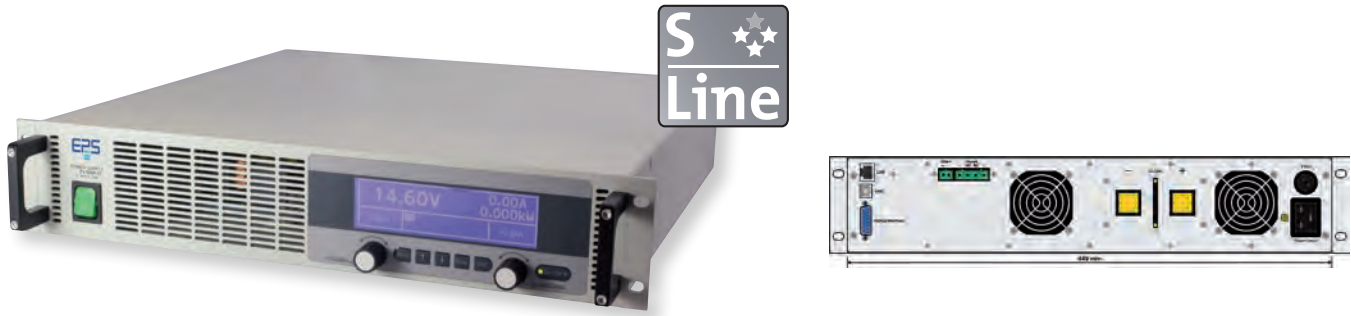
- 19" 1U Power Supplies with 1500W and 3000W
- Backlight graphic display
- Microprocessor controlled (16 Bit)
- Protection: OVP, OCP, OPP, OTP
- Analog, USB and LAN-Interface integrated
- Warranty extension optional

If you are looking for an ultra compact device with plenty of power, our new 19 „-1U rack“ is the first choice. Via the master-slave serial or parallel operation the system performance can be scaled within a wide range. With the built-in, galvanically isolated interfaces analog, USB and LAN, the devices are ideally suited for automatic test benches. The units of this series provide an extremely stable output with extremely low ripple and have a very dynamic microprocessor control. The clear display provides information on the adjusted actual and nominal values and clearly displays status and error messages. By pressing a key, you lock all function keys to prevent unwanted changes to the setting. All important monitoring and alarm functions for the output values (voltage, current and power) can be programmed in the clearly arranged menu.

Power	Voltage	Current	WxHxD (mm)	Model	Webcode
0-1500W	0-80V DC	0-50A	19"x1Ux466	E/PS 9080-50 1U	102870
0-1500W	0-200V DC	0-25A	19"x1Ux466	E/PS 9200-25 1U	102871
0-1500W	0-360V DC	0-15A	19"x1Ux466	E/PS 9360-15 1U	102872
0-1500W	0-500V DC	0-10A	19"x1Ux466	E/PS 9500-10 1U	102873
0-1500W	0-750V DC	0-6A	19"x1Ux466	E/PS 9750-06 1U	102874
0-3000W	0-80V DC	0-100A	19"x1Ux466	E/PS 9080-100 1U	102875
0-3000W	0-200V DC	0-50A	19"x1Ux466	E/PS 9200-50 1U	102876
0-3000W	0-360V DC	0-30A	19"x1Ux466	E/PS 9360-30 1U	102877
0-3000W	0-500V DC	0-20A	19"x1Ux466	E/PS 9500-20 1U	102878
0-3000W	0-750V DC	0-12A	19"x1Ux466	E/PS 9750-12 1U	102879



- Optional
- Arbitrary and function generator
 - 2-Quadrant operation
 - Calibration

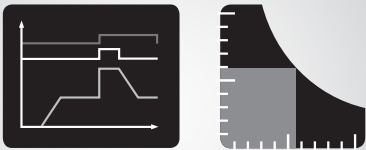


E/PS 9000-2U

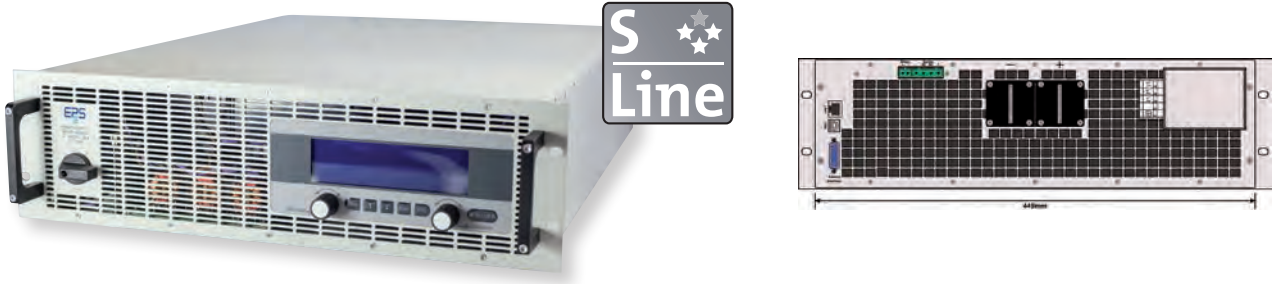
- 19" Power Supplies with 1000W, 1500W and 3000W
- Backlight dot matrix display
- Microprocessor controlled
- Increased voltage accuracy
- Protection: OVP, OCP, OPP, OTP, Alarm management
- 40V models according to SELV (EN60950)
- Integrated USB and LAN interfaces
- Warranty extension optional

If pure performance coupled with excellent voltage accuracy is your priority, choose this series. Thanks to the built-in USB and LAN interfaces, the devices are integrated quickly and at no additional cost in a test facility or a PLC environment. The easy-to-read display provides information on the actual and nominal values and displays status as well as error messages clearly. With the 2 knobs with integrated fine / coarse adjustment and the 6 keys all values are quickly set and your Power Supply is „ready to go“. With a panel lock feature, the whole panel can be locked in order to prevent settings from being changed. In addition all important monitoring and alarm functions for the output values of voltage, current and power can be programmed in the menu. A universal unit at a really reasonable price.

Power	Voltage	Current	WxHxD (mm)	Model	Webcode
0-1000W	0-40V DC	0-40A	19"x2Ux460	E/PS 9040-40 2U	102670
0-1000W	0-80V DC	0-40A	19"x2Ux460	E/PS 9080-40 2U	102601
0-1000W	0-200V DC	0-15A	19"x2Ux460	E/PS 9200-15 2U	102602
0-1000W	0-360V DC	0-10A	19"x2Ux460	E/PS 9360-10 2U	102603
0-1000W	0-500V DC	0-6A	19"x2Ux460	E/PS 9500-06 2U	102604
0-1000W	0-750V DC	0-4A	19"x2Ux460	E/PS 9750-04 2U	102605
0-1500W	0-40V DC	0-60A	19"x2Ux460	E/PS 9040-60 2U	102671
0-1500W	0-80V DC	0-60A	19"x2Ux460	E/PS 9080-60 2U	102606
0-1500W	0-200V DC	0-25A	19"x2Ux460	E/PS 9200-25 2U	102607
0-1500W	0-360V DC	0-15A	19"x2Ux460	E/PS 9360-15 2U	102608
0-1500W	0-500V DC	0-10A	19"x2Ux460	E/PS 9500-10 2U	102609
0-1500W	0-750V DC	0-6A	19"x2Ux460	E/PS 9750-06 2U	102610
0-3000W	0-40V DC	0-120A	19"x2Ux460	E/PS 9040-120 2U	102672
0-3000W	0-80V DC	0-120A	19"x2Ux460	E/PS 9080-120 2U	102611
0-3000W	0-200V DC	0-50A	19"x2Ux460	E/PS 9200-50 2U	102612
0-3000W	0-360V DC	0-30A	19"x2Ux460	E/PS 9360-30 2U	102613
0-3000W	0-500V DC	0-20A	19"x2Ux460	E/PS 9500-20 2U	102614
0-3000W	0-750V DC	0-12A	19"x2Ux460	E/PS 9750-12 2U	102615



- Optional
- High speed mode
 - Calibration
 - 2-Quadrant-operation
 - Arbitrary- and function generator

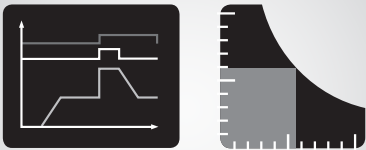


E/PS 9000-3U

- 19" Power Supplies with 3.3KW, 5KW, 6.6KW, 10 and 15kW to 150kW
- Backlight dot matrix display
- Microprocessor controlled
- Increased voltage accuracy
- Protection: OVP, OCP, OPP, OTP, alarm management
- 40V models according to SELV (EN60950)
- Integrated USB and LAN interfaces
- High efficiency up to 95,5%
- Warranty extension optional

If pure performance coupled with excellent voltage accuracy is your priority, choose this series. Thanks to the built-in USB and LAN interfaces, the devices are integrated quickly and at no additional cost in a test facility or a PLC environment. The easy-to-read display provides information on the actual and nominal values and displays status as well as error messages clearly. With the 2 knobs with integrated fine / coarse adjustment and the 6 keys all values are quickly set and your Power Supply is „ready to go“. With a panel lock feature, the whole panel can be locked in order to prevent settings from being changed. In addition all important monitoring and alarm functions for the output values of voltage, current and power can be programmed in the menu. A universal unit at a really reasonable price.

Power	Voltage	Current	WxHxD (mm)	Model	Webcode
0-3300W	0-40V DC	0-170A	19"x3Ux609	E/PS 9040-170 3U	102581
0-5000W	0-80V DC	0-170A	19"x3Ux609	E/PS 9080-170 3U	102582
0-5000W	0-200V DC	0-70A	19"x3Ux609	E/PS 9200-70 3U	102583
0-5000W	0-360V DC	0-40A	19"x3Ux609	E/PS 9360-40 3U	102584
0-5000W	0-500V DC	0-30A	19"x3Ux609	E/PS 9500-30 3U	102585
0-5000W	0-750V DC	0-20A	19"x3Ux609	E/PS 9750-20 3U	102586
0-6600W	0-40V DC	0-340A	19"x3Ux609	E/PS 9040-340 3U	102587
0-10000W	0-40V DC	0-510A	19"x3Ux609	E/PS 9040-510 3U	102588
0-10000W	0-80V DC	0-340A	19"x3Ux609	E/PS 9080-340 3U	102589
0-10000W	0-200V DC	0-140A	19"x3Ux609	E/PS 9200-140 3U	102590
0-10000W	0-360V DC	0-80A	19"x3Ux609	E/PS 9360-80 3U	102591
0-10000W	0-500V DC	0-60A	19"x3Ux609	E/PS 9500-60 3U	102592
0-10000W	0-750V DC	0-40A	19"x3Ux609	E/PS 9750-40 3U	102593
0-10000W	0-1000V DC	0-30A	19"x3Ux609	E/PS 91000-30 3U	102594
0-15000W	0-80V DC	0-510A	19"x3Ux609	E/PS 9080-510 3U	102595
0-15000W	0-200V DC	0-210A	19"x3Ux609	E/PS 9200-210 3U	102596
0-15000W	0-360V DC	0-120A	19"x3Ux609	E/PS 9360-120 3U	102597
0-15000W	0-500V DC	0-90A	19"x3Ux609	E/PS 9500-90 3U	102598
0-15000W	0-750V DC	0-60A	19"x3Ux609	E/PS 9750-60 3U	102599
0-15000W	0-1500V DC	0-30A	19"x3Ux609	E/PS 91500-30 3U	102600



- Optional
- High speed mode
 - Water Cooling
 - Calibration
 - 2-Quadrant-operation
 - Arbitrary and function generator

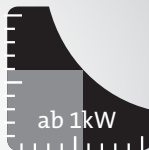
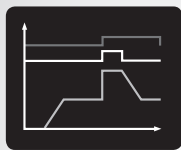


E/PS 8000-2U

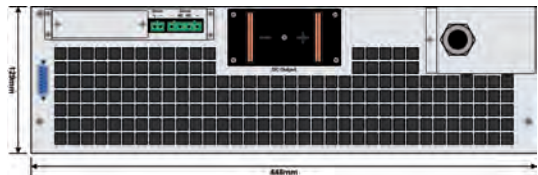
- 19" Power Supplies with 640W, 1000W, 1500W and 3000W
- Backlight four-digit display
- Microprocessor controlled
- Memory function for settings
- Keyboard LOCK
- Protection: OVP, UVP, OTP
- 40V models according to SELV (EN60950)
- Warranty extension optional

This series consistently offers outstanding value for money. The most important features come as standard. However, many functions can be retrofitted and voltage and current are scaled by connecting multiple devices in series or in parallel. With the memory function different user or application settings can be stored and recalled quickly at the touch of a button. This simplifies your daily work a lot. An optional 2-quadrant module allows to perform various standard tests e.g. DIN 40839 for the automotive industry and helps to create very sharp, negative edges. The actual settings are well protected against unintentional operation by means of the LOCK button. This top seller offers pure performance to a great price.

Power	Voltage	Current	WxHxD (mm)	Model	Webcode
640W	0-32V DC	0-20A	19"x2Ux380	E/PS 8032-20-2U	112662
650W	0-65V DC	0-10A	19"x2Ux380	E/PS 8065-10-2U	112663
640W	0-160V DC	0-4A	19"x2Ux380	E/PS 8160-04-2U	112664
0-1000W	0-80V DC	0-40A	19"x2Ux460	E/PS 8080-40-2U	112665
0-1500W	0-40V DC	0-60A	19"x2Ux460	E/PS 8040-60-2U	123506
0-1500W	0-80V DC	0-60A	19"x2Ux460	E/PS 8080-60-2U	112666
0-1500W	0-360V DC	0-15A	19"x2Ux460	E/PS 8360-15-2U	112669
0-3000W	0-40V DC	0-120A	19"x2Ux460	E/PS 8040-120-2U	123507
0-3000W	0-80V DC	0-120A	19"x2Ux460	E/PS 8080-120-2U	112667
0-3000W	0-160V DC	0-60A	19"x2Ux460	E/PS 8160-60-2U	112668
0-3000W	0-360V DC	0-30A	19"x2Ux460	E/PS 8360-30-2U	112670
0-3000W	0-720V DC	0-15A	19"x2Ux460	E/PS 8720-15-2U	112671



- Optional
- 2-Quadrant-modul (from 1kW)
 - High speed mode (from 1kW)
 - Calibration
 - Arbitrary and function generator

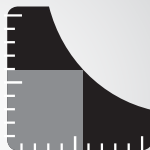
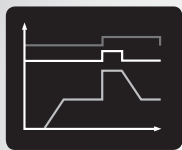


E/PS 8000-3U

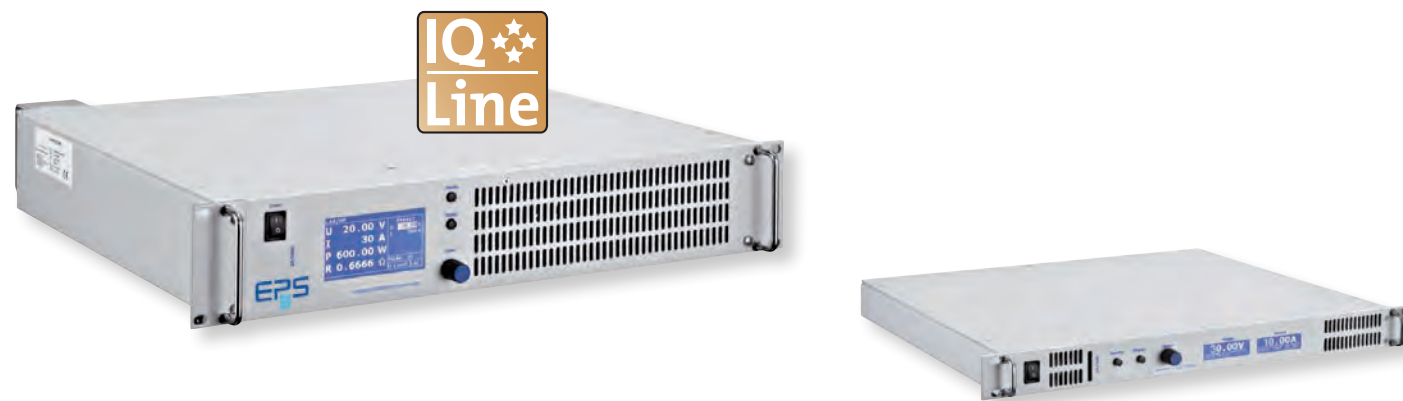
- 19" High performance Power Supplies from 3,3 to 150kW
- Backlight four-digit display
- Microprocessor controlled
- Memory function for settings
- Keyboard LOCK
- High efficiency up to 95,5%
- Optional: water cooling
- Protection: OVP, UVP, OTP
- 40V models according to SELV (EN60950)
- Warranty extension optional

If you aim for sufficient power at the best price, you should opt for this highly scalable power system. Installed in a 42U cabinet, it can deliver up to 150kW. The extremely high efficiency of up to 95% keeps the need to dissipate waste heat within limits. For quite „cool“ applications you have the additional option of water cooling units. Some devices can also be connected to a redundant system providing utmost reliability. User profiles and functional processes can be easily configured and stored substantially reducing the adjustment work while increasing the reproducibility of an application at the same time. The actual settings are well protected against unintentional operation by means of the LOCK button. Stalwart technology at a good purchase price and low-cost long-term operation keep your overall costs amazingly low.

Power	Voltage	Current	WxHxD (mm)	Model	Webcode
0-3300W	0-40V DC	0-170A	19"x3Ux595	E/PS 8040-170-3U	123508
0-5000W	0-80V DC	0-170A	19"x3Ux595	E/PS 8080-170-3U	123269
0-5000W	0-200V DC	0-70A	19"x3Ux595	E/PS 8200-70-3U	123270
0-5000W	0-500V DC	0-30A	19"x3Ux595	E/PS 8500-30-3U	123271
0-6600W	0-40V DC	0-340A	19"x3Ux595	E/PS 8040-340-3U	123509
0-10000W	0-40V DC	0-510A	19"x3Ux595	E/PS 8040-510-3U	123510
0-10000W	0-80V DC	0-340A	19"x3Ux595	E/PS 8080-340-3U	123272
0-10000W	0-160V DC	0-170A	19"x3Ux595	E/PS 8160-170-3U	123273
0-10000W	0-200V DC	0-140A	19"x3Ux595	E/PS 8200-140-3U	123262
0-10000W	0-400V DC	0-70A	19"x3Ux595	E/PS 8400-70-3U	123263
0-10000W	0-500V DC	0-60A	19"x3Ux595	E/PS 8500-60-3U	123264
0-10000W	0-1000V DC	0-30A	19"x3Ux595	E/PS 81000-30-3U	123221
0-15000W	0-80V DC	0-510A	19"x3Ux595	E/PS 8080-510-3U	123265
0-15000W	0-200V DC	0-210A	19"x3Ux595	E/PS 8200-210-3U	123266
0-15000W	0-240V DC	0-170A	19"x3Ux595	E/PS 8240-170-3U	123267
0-15000W	0-500V DC	0-90A	19"x3Ux595	E/PS 8500-90-3U	123223
0-15000W	0-600V DC	0-70A	19"x3Ux595	E/PS 8600-70-3U	123224
0-15000W	0-1500V DC	0-30A	19"x3Ux595	E/PS 81500-30-3U	123268



- Optional
- High speed mode
 - Water cooling
 - Calibration
 - Arbitrary and function generator
 - 2-Quadrant operation

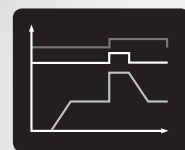


EPS/MP + MS

- 19" Power Supplies with 1200W, 2400W, 5000W and 6000W
- Compact size with only 1U / 2U
- Graphical clearly display
- Microprocessor controlled
- Memory for free programmable U/I curves
- Script controlling and data log function
- Photovoltaic array simulation
- Protection: Umax, Imax, OVP

These series are characterized by their compact dimensions. Especially if there is little space in the 19"-rack, these devices have stood the test. But the integrated functions will also help to persuade you: the power supplies can operate in constant current, voltage, resistance and power mode. As a consequence they can operate in UI, UIP, UIR mode as well as for example, simulate a PV characteristic. Any output characteristics can be started from the script control of the memory card (SD card). A data logger can log the actual values. The combination of a programmable control and a data logger creates a self-sufficient „stand-alone“ test system.

Power	Voltage	Current	WxHxD (mm)	Model	Webcode
0-1200W	0-15V DC	0-80A	19"x2Ux440	EPS/MP-115	102690
0-1200W	0-600V DC	0-2A	19"x1Ux440	EPS/MP-1600	102691
0-1200W	0-1200V DC	0-1A	19"x1Ux440	EPS/MP-11200	102689
0-2400W	0-15V DC	0-160A	19"x2Ux440	EPS/MP-215	102693
0-2400W	0-35V DC	0-68A	19"x2Ux440	EPS/MP-235	102694
0-2400W	0-600V DC	0-4A	19"x1Ux440	EPS/MP-2600	102695
0-2400W	0-1200V DC	0-2A	19"x2Ux440	EPS/MP-21200	102692
0-3000W	0-15V DC	0-200A	19"x2Ux440	EPS/MS-315	102696
0-3000W	0-1000V DC	0-3A	19"x2Ux440	EPS/MS-31000	102697
0-3000W	0-1200V DC	0-2,6A	19"x2Ux440	EPS/MS-31200	102698
0-5000W	0-25V DC	0-200A	19"x2Ux440	EPS/MS-525	102700
0-5000W	0-1000V DC	0-5A	19"x2Ux440	EPS/MS-51000	102701
0-5000W	0-1200V DC	0-4,2A	19"x2Ux440	EPS/MS-51200	102702
0-6000W	0-15V DC	0-400A	19"x2Ux620	EPS/MS-615	102703
0-6000W	0-1000V DC	0-6A	19"x2Ux620	EPS/MS-61000	102704
0-6000W	0-1200V DC	0-5A	19"x2Ux620	EPS/MS-61200	102705



- Optional
- Programmed characteristic
 - Storage slot
 - ATE design
 - Arbitrary and function generator

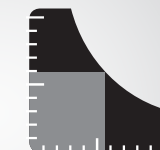
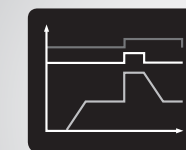


E/PS 8000-T

- Classical laboratory Power Supply 320W to 1500W
- Four-digit display for voltage and current
- Microprocessor controlled
- Flexible, power regulated output stage*
- Temperature regulated fan
- Wide input voltage range 90...264V
- Protection: OVP, OTP
- Warranty extension optional

*at models from 1000W

Power	Voltage	Current	WxHxD (mm)	Model	Webcode
320W	0-16V DC	0-20A	90x240x280	E/PS 8016-20-T	102379
320W	0-32V DC	0-10A	90x240x280	E/PS 8032-10-T	102380
325W	0-65V DC	0-5A	90x240x280	E/PS 8065-05-T	123374
640W	0-32V DC	0-20A	90x240x280	E/PS 8032-20-T	102382
650W	0-65V DC	0-10A	90x240x280	E/PS 8065-10-T	102383
640W	0-160V DC	0-4A	90x240x280	E/PS 8160-04-T	102384
0-1000W	0-80V DC	0-40A	90x240x395	E/PS 8080-40-T	102385
0-1000W	0-360V DC	0-10A	90x240x395	E/PS 8360-10-T	102387
0-1500W	0-80V DC	0-60A	90x240x395	E/PS 8080-60-T	102386
0-1500W	0-360V DC	0-15A	90x240x395	E/PS 8360-15-T	102388



- Optional
- High speed mode
 - Calibration
 - Arbitrary- and function generator





E/PS 8000-DT

- Classical laboratory Power Supply 320W to 1500W
- Four-digit display for voltage and current
- Microprocessor controlled
- Flexible, power regulated output stage*
- Wide input voltage 90...264V
- Protection: OVP, OTP
- Warranty extension optional

*at models from 1000W

One of the top sellers among the desktop devices. The device focusing on key features of a modern Power Supply in a very compact design. All actual and nominal values are shown on the display, represented at a glance. Monitoring functions can be shown and changed with a key stroke. An under voltage control is integrated, too. You can immediately lock all settings by the LOCK button. Also you can mount the Power Supply productive in demanding tests and applications with a large selection of interfaces. If the power is not enough, more devices can be added simply via the master-slave function. A reliable, proven desktop unit for your needs in the future.

Power	Voltage	Current	WxHxD (mm)	Model	Webcode
320W	0-16V DC	0-20A	330x118x308	E/PS 8016-20-DT	123003
320W	0-32V DC	0-10A	330x118x308	E/PS 8032-10-DT	123002
325W	0-65V DC	0-5A	330x118x308	E/PS 8065-05-DT	123001
640W	0-32V DC	0-20A	330x118x308	E/PS 8032-20-DT	123000
650W	0-65V DC	0-10A	330x118x308	E/PS 8065-10-DT	122999
640W	0-160V DC	0-4A	330x118x308	E/PS 8160-04-DT	122998
0-1000W	0-80V DC	0-40A	330x118x388	E/PS 8080-40-DT	122997
0-1000W	0-360V DC	0-10A	330x118x388	E/PS 8360-10-DT	122967
0-1500W	0-80V DC	0-60A	330x118x388	E/PS 8080-60-DT	122968
0-1500W	0-360V DC	0-15A	330x118x388	E/PS 8360-15-DT	122992



- Optional
- High-speed mode from 1kW
 - Carrying handle as tilt stand
 - 19" design
 - Calibration
 - 2-Quadrant operation
 - Arbitrary and function generator

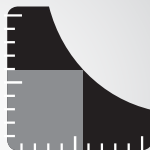


E/PS 5000

- Desktop Power Supply with 160W and 640W
- Backlight blue LCD graphic display
- Microprocessor controlled
- Memory for up to 9 different presets
- Protection: OVP, OCP, OTP
- 40V models according to SELV (EN60950)
- Integrated USB interface

A modern, newly developed power unit with a focus on important functions for daily work and an excellent price-performance ratio. All adjustments are done quickly with the graphical display and the user-friendly, interactive menu navigation. The nominal and actual values and the set modes, even in low light conditions can be easily read off by means of the illuminated display. The clearly structured control panel, two knobs and further 5 keys enable you to use the device safely and with minimal effort. For different users or different applications, up to 9 nominal sets can be configured and stored. The integrated monitoring functions protect your load safe and reliable from an off-limit condition.

Power	Voltage	Current	WxHxD (mm)	Model	Webcode
0-160W	0-40V DC	0-10A	200x87x320	E/PS 5040-10A	102530
0-160W	0-80V DC	0-5A	200x87x320	E/PS 5080-05A	102531
0-160W	0-200V DC	0-2A	200x87x320	E/PS 5200-02A	102532
0-320W	0-40V DC	0-20A	200x87x320	E/PS 5040-20A	102533
0-320W	0-80V DC	0-10A	200x87x320	E/PS 5080-10A	102534
0-320W	0-200V DC	0-4A	200x87x320	E/PS 5200-04A	102535
0-640W	0-40V DC	0-40A	200x87x320	E/PS 5040-40A	102536
0-640W	0-80V DC	0-20A	200x87x320	E/PS 5080-20A	102537
0-640W	0-200V DC	0-10A	200x87x320	E/PS 5200-10A	102538



- Optional
- Safety adapter
 - Calibration

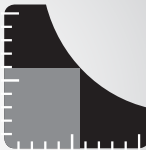


E/PS 2000-B

- Desktop Power Supply with 100W, 160W and 320W
- Backlight blue display
- Microprocessor controlled
- Particularly suitable for schools and laboratories
- Protection: OVP, OCP, OTP
- Without fan until 160W
- Integrated USB interface at the front panel

This functional unit is focused on the basic functions of a modern Power Supply in order to achieve an optimal price-performance ratio. Nevertheless, we didn't economize on an integrated USB interface. Optionally, we provide a well programmed software for remote control and monitoring of the Power Supply. Thanks to the front safety sockets, the closed housing and dispensing with fans (up to 160W) the unit is perfectly suited for schools and training companies as well as for the workshop and the laboratory. The device is a reliable Power Supply for the everyday operation at a very reasonable price.

Power	Voltage	Current	WxHxD (mm)	Model	Webcode
100W	0-42V DC	0-6A	174x82x240	E/PS 2042-06B	123459
160W	0-42V DC	0-10A	174x82x240	E/PS 2042-10B	123460
320W	0-42V DC	0-20A	174x82x240	E/PS 2042-20B	123596
100W	0-84V DC	0-3A	174x82x240	E/PS 2084-03B	123457
160W	0-84V DC	0-5A	174x82x240	E/PS 2084-05B	123606
320W	0-84V DC	0-10A	174x82x240	E/PS 2084-10B	123597



- Optional
- USB license code and software
 - Calibration

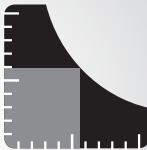


E/PS 2300-B

- Desktop Power Supply with 100W and 160W
- 3 output voltages
- All DC-outputs isolated
- Backlight blue display
- Microprocessor controlled
- Protection: OVP, OCP, OTP
- Integrated USB interface at the front panel

The laboratory Power Supply provides two main outputs and one auxiliary output (12W). The main outputs can be adjusted synchronously via the new „tracking function“. Thus, for example, a ± 15V Power Supply can be built. In addition, the outputs can be connected in series or in parallel. Via an overvoltage (OVP) and over current protection (OCP), the output is switched off in time to protect the connected load. The unit can be easily adjusted and monitored with a PC via the USB interface and optional software. Solid technology at a good price!

Power	Voltage	Current	WxHxD (mm)	Model	Webcode
2x 100W + 1x 12W	Ausgang 1+2: 0-42VDC Ausgang 3: 3-6VDC	Ausgang 1+2: 0-6A Ausgang 3: max.4A	282x82x243	E/PS 2342-06B	123598
2x 160W + 1x 12W	Ausgang 1+2: 0-42VDC Ausgang 3: 3-6VDC	Ausgang 1+2: 0-10A Ausgang 3: max.4A	282x82x243	E/PS 2342-10B	123599
2x 100W + 1x 12W	Ausgang 1+2: 0-84VDC Ausgang 3: 3-6VDC	Ausgang 1+2: 0-3A Ausgang 3: max.4A	282x82x243	E/PS 2384-03B	123600
2x 160W + 1x 12W	Ausgang 1+2: 0-84VDC Ausgang 3: 3-6VDC	Ausgang 1+2: 0-5A Ausgang 3: max.4A	282x82x243	E/PS 2384-05B	123461



- Optional
- USB license code and software
 - Calibration



E/PS 800-R

- Built-in Power Supply with 320W, 640W, 1000W, 1500W and 5000W
- Wall or cabinet mounting
- Microprocessor controlled
- Continuous operation proofed and restart
- Protection: OVP, OT
- Div. digital In- and Outputs, alarm signals
- Alarm signals

Compact devices equipped with a reliable, proven power unit. They are versatile and the most important functions come standard. With the absence of a display the devices can be precisely controlled with analog and digital signals and integrated into an automated PLC environment. Thanks to the high efficiency devices up to 650 W are cooled only by convection. Bigger devices have a temperature-controlled fan. The lifetime costs of this Power Supply are unbeatable.

Power	Voltage	Current	WxHxD (mm)	Model	Webcode
320W	0-16V DC	0-20A	218x163x83	E/PS 816-20R	102454
320W	0-32V DC	0-10A	218x163x83	E/PS 832-10R	102455
325W	0-65V DC	0-5A	218x163x83	E/PS 865-05R	102456
640W	0-32V DC	0-20A	218x163x83	E/PS 832-20R	102457
650W	0-65V DC	0-10A	218x163x83	E/PS 865-10R	102458
640W	0-160V DC	0-4A	218x163x83	E/PS 8160-04R	102459
1000W	0-80V DC	0-40A	90x360x240	E/PS 880-40R	102460
1000W	0-360V DC	0-10A	90x360x240	E/PS 8360-10R	102462
1500W	0-360V DC	0-15A	90x360x240	E/PS 8360-15R	102463
5000W	0-80V DC	0-170A	180x530x171	E/PS 880-170R	123369
5000W	0-200V DC	0-70A	180x530x171	E/PS 8200-70R	123370
5000W	0-500V DC	0-30A	180x530x171	E/PS 8500-30R	123371



E/PS 800-SM

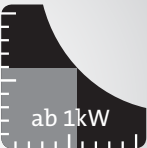
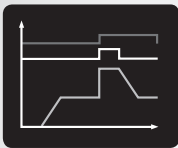
- DIN-Rail Power Supply with 120W to 480W
- High efficiency to 93%
- Overload capable (für 8s, 50% peak power)
- Protection: OVP, OT
- Controlling: external In/Out



DC-USV EPS/UPS 700 (Option)

For the tough industrial environment we offer of course very compact and reliable devices designed for DIN rail mounting. Thanks to the robust, proven power electronics they are very versatile and to top it off the important protective functions come standard. Via two relay contacts, the device can be monitored easily via your PLC. Due to its high efficiency thermal problems in the control cabinet can be prevented reducing consequential costs at the same time.

Power	Voltage	Current	WxHxD (mm)	Model	Webcode
120W	12-15V DC	10A	48x126x112	E/PS 812-10SM	112767
240W	12-15V DC	16A	60x126x112	E/PS 812-16SM	112769
240W	24-28V DC	10A	60x126x112	E/PS 824-10SM	112719
480W	24-28V DC	20A	78x126x125	E/PS 824-20SM	102158
480W	48-56V DC	10A	78x126x125	E/PS 848-10SM	112771



- Optional
- Arbitrary and function generator

- Optional
- DC-UPS model
 - UPS also with battery unit
 - Parallel operation

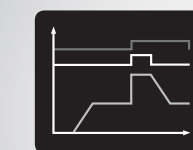
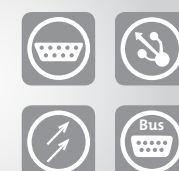
EPS/HC 3000
page 35EPS/HC 4000
page 36E/PS HC 4000 M
page 37EPS/HC 4000 WC
page 38E/PS HC 5000
page 39EPS/HC 5000 WC
page 40P
Line

EPS/HC 3000

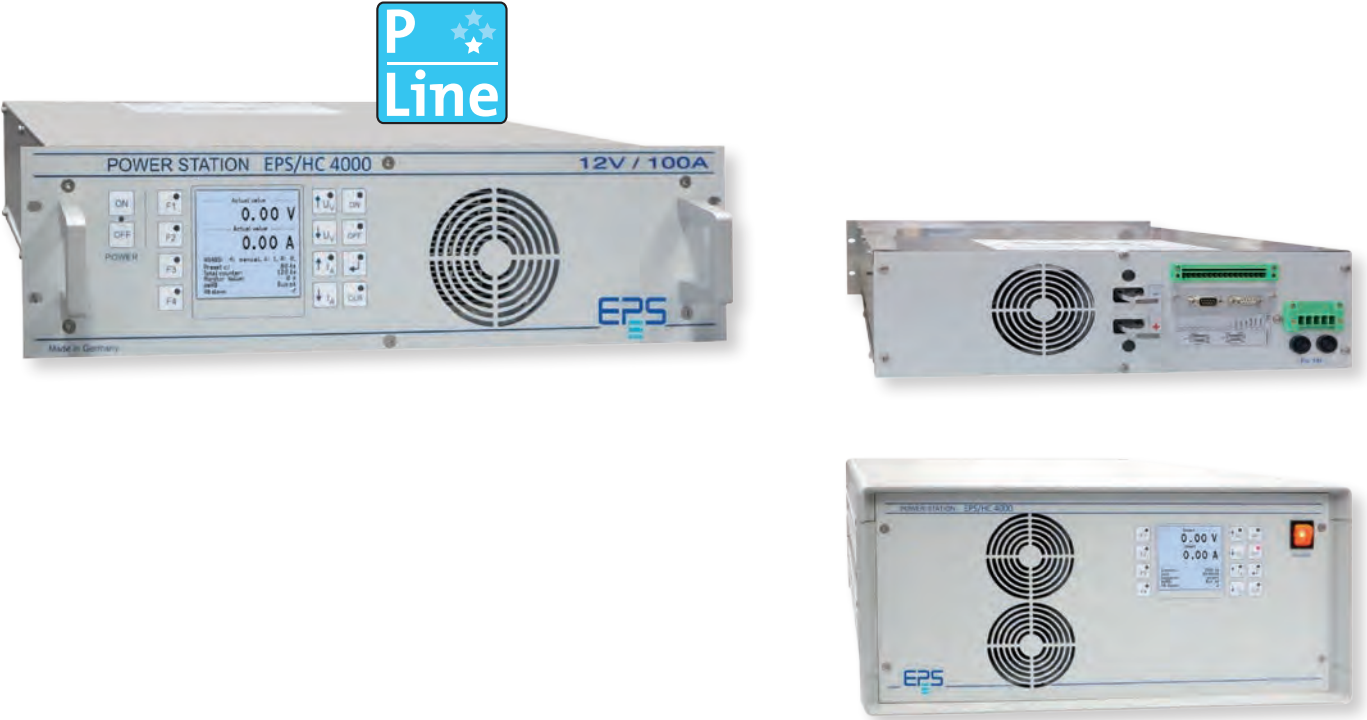
- Power pack with 5kW to 39kW
- Cabinet mounting
- Stainless steel case
- Continuous operation and short circuit proofed
- Protection: Input current limitation, OT, OVP, OCP
- Control via analog signals 0-10 V or optional keypad

Benefit from reliable, proven rectifiers with a very large power spectrum! We can also offer other voltages and powers due to a highly modular design of the power unit. The modules can be equipped or subsequently upgraded with numerous features. By means of many well-known industrial bus systems, the power supplies can be controlled and integrated in an automated PLC environment. Cost-effective, robust technology at a good purchase price and low operating expenses keep your overall costs amazingly low.

Power	Voltage	Current	WxHxD (mm)	Model	Webcode
6V DC	1000A	6000W	407x265x415	EPS/HC 30006-1000	102710
	2000A	12000W	510x355x492	EPS/HC 30006-2000	102711
	3000A	18000W	564x332x1027	EPS/HC 30006-3000	102712
10V DC	1000A	10000W	407x265x415	EPS/HC 30010-1000	102713
	2000A	20000W	510x355x492	EPS/HC 30010-2000	102714
	3000A	30000W	564x332x1027	EPS/HC 30010-3000	102715
15V DC	1300A	19500W	510x355x492	EPS/HC 30015-1300	102717
	2500A	37500W	564x332x1027	EPS/HC 30015-2500	102718
30V DC	600A	18000W	510x355x492	EPS/HC 30030-600	102720
	1300A	39000W	564x332x1027	EPS/HC 30030-1300	102721



- Optional
- External LCD control panel
 - Remote sense
 - Reverse polarity function (< 100V)
 - Arbitrary and function generator

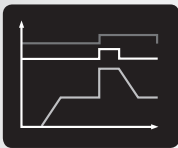


EPS/HC 4000

- 19" Power Supply with 1500W to 12000W
- Programmable via control panel
- Large LCD display with keypad
- Stainless steel case
- Built-in 60mV Shunt
- Protection: Input current limitation, OVP, OCP
- Ideally for high-current applications, e.g. electroplating

These 19" units will meet your needs, if you require low voltages and high currents. With the help of the large, illuminated LCD display, you can operate the high-performance device easily and accurately. We can offer these reliable, proven rectifiers also with other ranges of Voltage and Power due to an accurate modular design of the power unit. The power supplies can be equipped or upgraded with numerous features. A RS485 interface and/or an analog interface is optionally available. Inexpensive, efficient technology goes easy on your budget and the operating costs are amazingly low.

Power	Voltage	Current	WxHxD (mm)	Model	Webcode
6V DC	250A	1500W	19"x134x510	EPS/HC 40006-250	102722
10V DC	200A	2000W	19"x134x510	EPS/HC 40010-200	102725
15V DC	150A	2250W	19"x134x510	EPS/HC 40015-150	102728
	250A	3750W	19"x134x510	EPS/HC 40015-250	102729
30V DC	60A	1800W	19"x134x510	EPS/HC 40030-60	102731
6V DC	350A	2100W	525x250x580	EPS/HC 40006-350-D	102750
6V DC	600A	3600W	525x250x580	EPS/HC 40006-600-D	102751



- Optional
- Remote sense
 - Reverse polarity function
 - Arbitrary and function generator

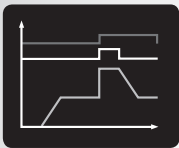


EPS/HC 4000 M

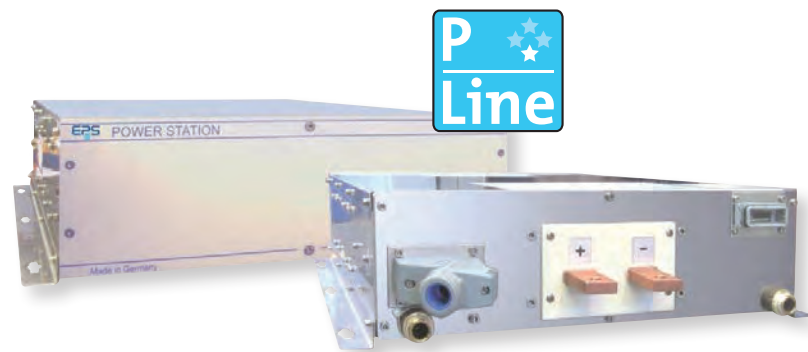
- 19" Built-in Power Supply with 1800W to 12.000W
- Power unit
- Protection: Input current limitation, OVP, OCP
- Optimized cooling air channel
- Ideally for high-current application, e.g. electroplating

These 19" built-in Power Supplies are your first choice, if you require low voltages and high currents. Dispensing with a control panel and a display, these devices are designed for high power at a low price, ideal for integration in an automated industrial environment. The Power Supply units can be equipped with numerous functions. Via the internal CAN interface numerous bus couplers can be connected to the device. We can offer these reliable, proven rectifiers also with other ranges of voltage and power thanks to the flexible design of the power unit. Benefit from truly affordable bulk power and low operating costs!

Power	Voltage	Current	WxHxD (mm)	Model	Webcode
6V DC	300A	1800W	21HPx6Ux400	EPS/HC 40006-300 M	102734
	600A	3600W	42HPx6Ux400	EPS/HC 40006-600 M	102735
10V DC	300A	3000W	21HPx6Ux400	EPS/HC 40010-300 M	102736
	600A	6000W	42HPx6Ux400	EPS/HC 40010-600 M	102737
15V DC	300A	4500W	21HPx6Ux400	EPS/HC 40015-300 M	102738
	600A	9000W	42HPx6Ux400	EPS/HC 40015-600 M	102739
30V DC	200A	6000W	21HPx6Ux400	EPS/HC 40030-200 M	102740
	400A	12000W	42HPx6Ux400	EPS/HC 40030-400 M	102741



- Optional
- External LCD control panel
 - Remote sense
 - Reverse polarity function
 - Arbitrary and function generator

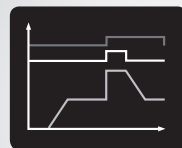


EPS/HC 4000 WC

- 19" Power Supplies with 6kW to 30kW
- Microprocessor controlled
- Water cooling
- Up to 30 devices for parallel and serial operation
- Protection: Input current limitation, OVP, OCP
- Ideally for high-current applications

If the waste heat generated by the power supply unit or its dimensions cause problems in your company, a water cooling system could be the solution. Especially if several rectifiers are in action, a cooling system is worthwhile. The robust technology with a precise microprocessor controller allows you to achieve the best results. The Power Supplies can be equipped or subsequently upgrade with multiple features. Via the internal CAN interface numerous bus couplers can be connected to the device. This series can be supplied with different voltages and currents. Cost-effective, efficient technology goes easy on your budget and the operating costs are amazingly low.

Power	Voltage	Current	WxHxD (mm)	Model	Webcode
6V DC	1000A	6000W	19"x3Ux515	EPS/HC 40006-1000 WC	102742
	2000A	12000W	19"x6Ux515	EPS/HC 40006-2000 WC	102743
10V DC	1000A	10000W	19"x3Ux515	EPS/HC 40010-1000 WC	102744
	2000A	20000W	19"x6Ux515	EPS/HC 40010-2000 WC	102745
15V DC	1000A	15000W	19"x3Ux515	EPS/HC 40015-1000 WC	102746
	2000A	30000W	19"x6Ux515	EPS/HC 40015-2000 WC	102747
30V DC	500A	15000W	19"x3Ux515	EPS/HC 40030-500 WC	102748
	1000A	30000W	19"x6Ux515	EPS/HC 40030-1000 WC	102749



- Optional
- External LCD control panel
 - Remote sense
 - Reverse polarity function
 - Arbitrary and function generator

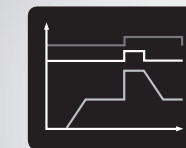


EPS/HC 5000

- Cabinet system with 25kW to 80kW
- Switching technology in a very compact design
- Power unit
- Protection: Input current limitation, OVP, OCP
- Ideally for high-current applications, e.g. electroplating

This control cabinet system is designed for the really high current consumption. The power unit dispenses with the built-in display, but allows you to control the device exactly with many standardized fieldbus systems via the internal bus. Of course an illuminated LCD control panel with keypad is available upon request. Due to the modular power design we can also provide other voltages and currents as required. Power without end, at a reasonable price.

Power	Voltage	Current	WxHxD (mm)	Model	Webcode
6V DC	5000A	30000W	600x2200x600	EPS/HC 50006-5000	102770
10V DC	5000A	50000W	600x2200x600	EPS/HC 50010-5000	102771
15V DC	5000A	75000W	600x2200x600	EPS/HC 50015-5000	102772
30V DC	2500A	75000W	600x2200x600	EPS/HC 50030-2500	102773



- Optional
- External LCD control panel
 - Reverse polarity function
 - Arbitrary and function generator



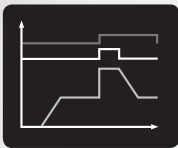
EPS/HC 5000 WC

- Cabinet system with 25kW to 360kW
- Water cooling
- Switching technology in a very compact design
- Power unit
- Protection: Input current limitation, OVP, OCP
- Ideally for high-current applications

If the waste heat from the power supply or its dimensions present a problem in your company, you should consider a water cooled system. In this case this series offers clear advantages. Of course, we are happy to support you in the integration. The robust technology with its precise control allows you to achieve the best results. The proven power supply units can be equipped with multiple functions. Via the internal CAN interface several fieldbus couplers can be connected to the device. This series can be supplied with different voltages and currents. For versatile use day by day and with low operating costs they produce efficient technology profitably.

Thanks to good value, efficient technology for versatile use in day-to-day work and the low operating costs you can produce at a profit.

Power	Voltage	Current	WxHxD (mm)	Model	Webcode
6V DC	5000A	30000W	400x2200x600	EPS/HC 50006-5000 WC	102754
	7200A	43200W	800x2200x600	EPS/HC 50006-7200 WC	102755
	14400A	86400W	1600x2200x600	EPS/HC 50006-14400 WC	102756
	21600A	129600W	2400x2200x600	EPS/HC 50006-21600 WC	102757
10V DC	5000A	50000W	400x2200x600	EPS/HC 50010-5000 WC	102758
	7200A	72000W	800x2200x600	EPS/HC 50010-7200 WC	102759
	14400A	144000W	1600x2200x600	EPS/HC 50010-14400 WC	102760
	21600A	216000W	2400x2200x600	EPS/HC 50010-21600 WC	102761
15V DC	5000A	75000W	400x2200x600	EPS/HC 50015-5000 WC	102762
	7200A	108000W	800x2200x600	EPS/HC 50015-7200 WC	102763
	14400A	195000W	1600x2200x600	EPS/HC 50015-14400 WC	102764
	21600A	324000W	2400x2200x600	EPS/HC 50015-21600 WC	102765
30V DC	3000A	90000W	400x2200x600	EPS/HC 50030-3000 WC	102766
	4000A	120000W	800x2200x600	EPS/HC 50030-4000 WC	102767
	8000A	240000W	1600x2200x600	EPS/HC 50030-8000 WC	102768
	12000A	360000W	2400x2200x600	EPS/HC 50030-12000 WC	102769



- Optional
- External LCD control panel
 - Remote sense
 - Reverse polarity function
 - Arbitrary and function generator



EPS/HV 9000

- 19" High Voltage Power Supplies with 2000W
- Resonance converter
- High regulation accuracy and low ripple
- 3½-digit displays
- Analog Interface
- Protection: OVP, OTP

You certainly can make good use of these time-proven frequency modulated resonant converters, too. The device can be easily adjusted via the two potentiometers and read from the illuminated display. We have integrated an interlock loop for your safety. Of course, the unit is flashover tested and short circuit protected. The DC output is on the rear, just as an analog interface with a 0-10 V signal level for controlling and monitoring.

Power	Voltage	Current	WxHxD (mm)	Model	Webcode
2000W	0-1200V DC	0-1.67A	19"x3Ux460	EPS/HV 9000-1K2-2000	100419
2000W	0-2000V DC	0-1A	19"x3Ux460	EPS/HV 9000-2K-2000	100420
2000W	0-4000V DC	0-500mA	19"x3Ux460	EPS/HV 9000-4K-2000	102548
2000W	0-6000V DC	0-350mA	19"x3Ux460	EPS/HV 9000-6K-2000	100421
2000W	0-12000V DC	0-170mA	19"x3Ux460	EPS/HV 9000-12K-2000	100422



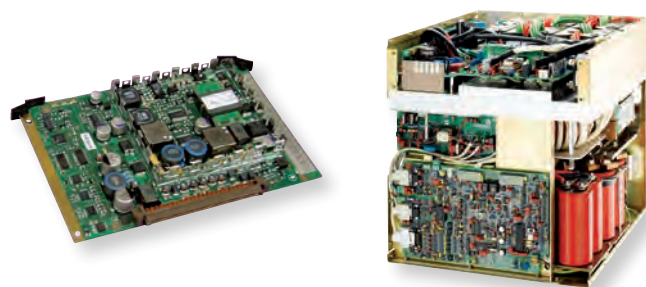
- Optional
- Desktop case
 - Calibration

Customized AC/DC Power Supplies up to 500kW, bipolar and Regenerative Power Supplies

EPS Power Supplies Systems offer a unique variety of standard units as well as highly flexible, customized devices built to your specifications in small and large quantities. Made in Germany.

Automation

The best-fit Power Supply is critical in automation, also in view of a fast, efficient and reliable production plant. EPS delivers worldwide a full range of highly reliable, low-maintenance and efficient Power Supplies.



left: 13 different output voltages for camera systems
right: 40kW Power Supply for semiconductor systems

Railway

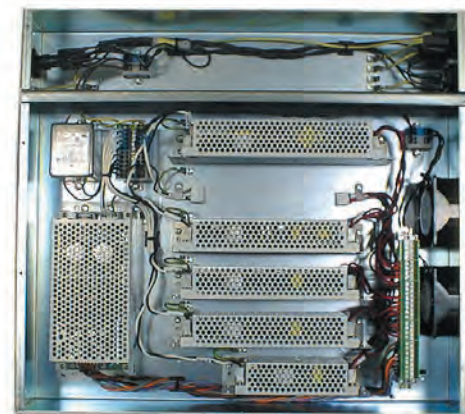
Custom-tailored solutions are essential for the power supply in the railway sector. EPS provides high voltage sources up to 1500 V and 120 kW specifically for testing applications.



High Voltage Power Supply 1500V/80kW

Non-destructive testing

Non-destructive testing using various physical methods and sensors, guarantee that materials, products, plants and systems are in a safe condition according to specifications. In addition to the development of radiological and acoustic methods numerous other NDT methods and sensors are researched, evaluated and applied. Special emphasis is placed on the combination of various techniques to improve the reliability of test results and prevent damage to our technical environment. We offer the right solution for your specific project, including housing production!



PS non-destructive testing, different output voltages

Electrochemical methods

EPS also manufactures pulse power supplies for electrochemical processes in research and industry. These primarily include electroplating, the surface treatment of aluminum, PCB manufacturing, automotive testing and water treatment. For all these areas EPS delivers customized solutions for optimal power supply.

Due to our comprehensive approach, from system design to the commissioning of the power supplies and controllers, we ensure that the core processes are supplied with customized currents and the best possible system efficiency can be realized: Thus, the compact design of our DC power supplies and devices as well as the individually tailored accessories, to place the power supply as close as possible to the process. This leads to shorter lines and thus to considerable energy savings in the continuous process.



Hollow rope testing with 5000A

Aviation

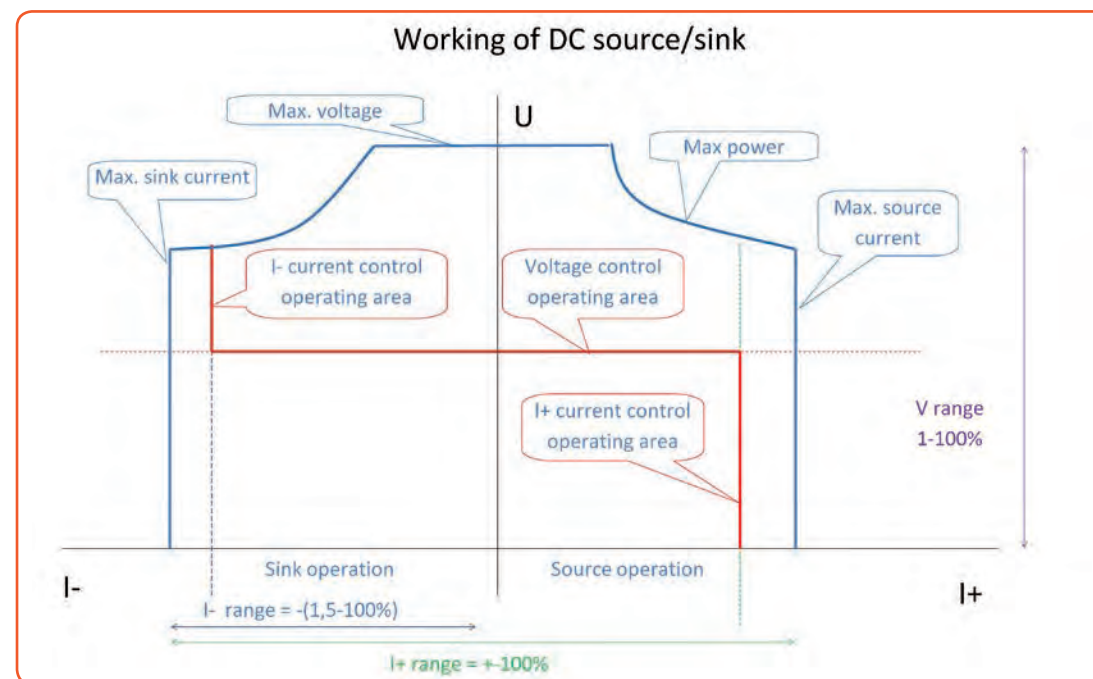
Aviation puts special requirements on the on-board electronics: Compact and reliable, low interference and energy saving are just some of the partly contradictory criteria. In order to incorporate the installed on-board power supply in HIL tests, EPS offers the simulation of 115/230 V 400 Hz systems. For example an engine generator (picture 400 kW) can be simulated with the help of programmable parameters and other environment variables.



400kW aircraft engine test, 290V DC power supply system, dual 700A configuration for highly inductive load (turbine)



DC power 200kW for the airport, 110 VDC power generation, dual 800 A configuration, full load operation up to +55 °C ambient temperature, protection degree IP42



Output characteristic

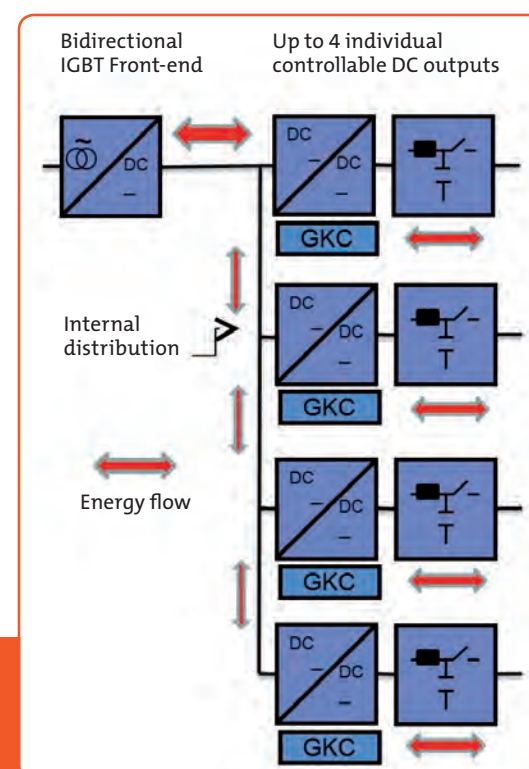
Electromobility

Hybrid and electric drives will get more and more important in the future for a sustainable environmentally friendly mobility. Development testing in this area, such as the simulation of the electrical system, requires systems with an extremely high performance.

EPS specializes in these applications and offers test solutions tailor-made to your requirements, up to 500 kW in a voltage range from 8 to 1000 V, which have been developed for testing electric and hybrid drive systems and related components such as inverters, batteries and fuel cells. They feed electric energy back into the grid with high efficiency. External loads are not needed and electrical energy, which would otherwise be lost can be fed back. This feedback capacity is a crucial factor in test applications, which operate with unusually high performance. Also, the systems have up to 1.5 times overload capacity. The systems have a modular design and can be switched in parallel.

Multi Channel system

In contrast to conventional DC sources our systems feature four independent output channels and can operate as a source and as a load.



Multi Channel system
For example: Testing and simulation of fuel cell stacks

All of our systems have a galvanically isolated output and an LCD display or TFT touchpanel for voltage and current. They can be controlled via a standard CAN/Analog interface, optionally with a RS232/USB, Profibus or Ethernet interface. The system is freely programmable and has specific algorithms which allow various tests such as fast charging of batteries or battery simulation to be performed. Further applications are in avionics (adjustable output frequency from 16.7 to 800 Hz), LISN, grid connected solar plants and peak load illustration.

With our optional function/arbitrary waveform generator »EPS/AWG“ you can also control your power supplies (2 channels) to generate and apply complex sequences.

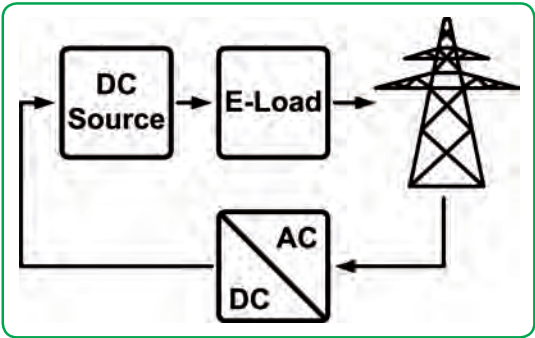


Bi-directional Power Supply forklift 1000A/100kW, and an intuitive Touchscreen-Terminal (systems with TFT control panel)



Water cooling mixed system

EPS/ELR
page 47



EPS/ELR

- 19“ regenerative load up to 10,5 kW
- Modi: I, U, P, R
- Multilingual control TFT touchpanel
- FPGA/DSP-based, digital control
- Arbitrary and function generator
- Master/Slave operation with total formation
- USB-Port on the front side for USB-sticks
- Galvanically isolated DC input
- Warranty extension optional

What is your idea of energy efficiency in the test mode? Converting electrical energy into heat just to cool the workroom with an air conditioner again? Not anymore! Simply feed back the electrical energy with an average efficiency of 93% in the grid and save yourself the cost of air conditioning or other cooling systems. The scalable loads of series EPS/ELR have an intuitive TFT display panel with touch function to adjust and read all parameters quickly. An arbitrary waveform generator allows the user to configure and run various work profiles in all modes. Thanks to a wide range of different interface cards, the device is also quickly connected to a PC or integrated into a complex test stand.

Opt for this load it is simply the best available!



EPS/EL 9000B 3U
page 48



EPS/DCL
page 49



EPS/EL 9000 HP
page 51

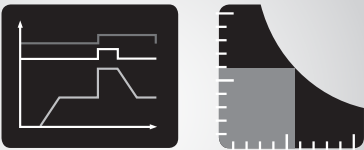


EPS/EL 3000/9000
page 50

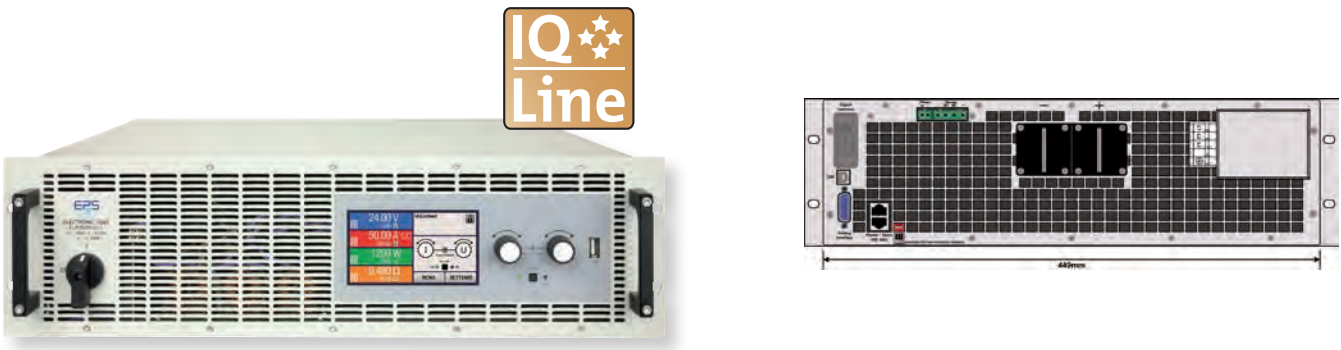


EPS/ELA
page 52

Power	Voltage	Current	Resistance	WxHxD (mm)	Model	Webcode
0-3.5kW	0-80V DC	0-170A	0.01-12Ω	19“x3Ux609	EPS/ELR 9080-170	123709
0-3.5kW	0-250V DC	0-70A	0.09-120Ω	19“x3Ux609	EPS/ELR 9250-70	123712
0-3.5kW	0-500V DC	0-30A	0.42-480Ω	19“x3Ux609	EPS/ELR 9500-30	123715
0-3.5kW	0-750V DC	0-22A	0.8-1100Ω	19“x3Ux609	EPS/ELR 9750-22	123718
0-7kW	0-80V DC	0-340A	0.005-6Ω	19“x3Ux609	EPS/ELR 9080-340	123710
0-7kW	0-250V DC	0-140A	0.04-60Ω	19“x3Ux609	EPS/ELR 9250-140	123713
0-7kW	0-500V DC	0-60A	0.21-240Ω	19“x3Ux609	EPS/ELR 9500-60	123716
0-7kW	0-750V DC	0-44A	0.43-550Ω	19“x3Ux609	EPS/ELR 9750-44	123719
0-7kW	0-1000V DC	0-30A	0.83-950Ω	19“x3Ux609	EPS/ELR 91000-30	123721
0-10.5kW	0-80V DC	0-510A	0.003-4Ω	19“x3Ux609	EPS/ELR 9080-510	123711
0-10.5kW	0-250V DC	0-210A	0.03-40Ω	19“x3Ux609	EPS/ELR 9250-210	123714
0-10.5kW	0-500V DC	0-90A	0.14-160Ω	19“x3Ux609	EPS/ELR 9500-90	123717
0-10.5kW	0-750V DC	0-66A	0.29-360Ω	19“x3Ux609	EPS/ELR 9750-66	123720
0-10.5kW	0-1500V DC	0-30A	1.2-1450Ω	19“x3Ux609	EPS/ELR 91500-30	123722



- Optional
- Automatic isolation unit
 - 2-Quadrant operation
 - Battery simulation
 - Calibration
 - Profi Software



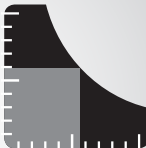
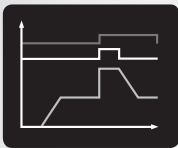
EPS/EL 9000 B 3U

- 19" Load with 1,8kW, 3,6kW and 5,4 kW
- Intuitive graphical TFT-Touchpanel
- Microprocessor controlled (FPGA)
- Integrated function generator
- High dynamic
- Modes: I, U, P, R, Battery discharge, PV-Inverter simulation
- Master/Slave operation possible
- Isolated DC-input
- USB-Port on the front side for USB-sticks
- Warranty extension optional

If you expect a little more from an electronic load, the EPS/EL 9000B series provides exactly the features you need to facilitate and speed up your work. The powerful FPGA microprocessor (16 bit) with integrated function generator for pre-defined curves (sine, trapezoidal, square, ramp) or freely programmed sequences and the intuitive, color touch panel are exactly the tools you need every day. The units have a high accuracy and stability, are very dynamic (current pulses of up to 30µs) and thanks to the FET linear amplifier they are free of ripple. Due to the many interfaces, the electronic loads are ideal for integration into automated test sequences in test rigs or building cascaded, scalable high-load applications.

Power*	Voltage	Current	WxHxD (mm)	Model	Webcode
0-1.8kW	0-80V DC	0-150A	19"x3Ux750	EPS/EL 9080-150B 3U	112910
0-3.6kW	0-80V DC	0-300A	19"x3Ux750	EPS/EL 9080-300B 3U	112911
0-5.4kW	0-80V DC	0-450A	19"x3Ux750	EPS/EL 9080-450B 3U	112912
0-1.8kW	0-200V DC	0-60A	19"x3Ux750	EPS/EL 9200-60B 3U	112913
0-3.6kW	0-200V DC	0-120A	19"x3Ux750	EPS/EL 9200-120B 3U	112914
0-5.4kW	0-200V DC	0-180A	19"x3Ux750	EPS/EL 9200-180B 3U	112915
0-1.8kW	0-360V DC	0-35A	19"x3Ux750	EPS/EL 9360-35B 3U	112916
0-3.6kW	0-360V DC	0-70A	19"x3Ux750	EPS/EL 9360-70B 3U	112917
0-5.4kW	0-360V DC	0-105A	19"x3Ux750	EPS/EL 9360-105B 3U	112918
0-1.8kW	0-500V DC	0-25A	19"x3Ux750	EPS/EL 9500-25B 3U	112919
0-3.6kW	0-500V DC	0-50A	19"x3Ux750	EPS/EL 9500-50B 3U	112920
0-5.4kW	0-500V DC	0-75A	19"x3Ux750	EPS/EL 9500-75B 3U	112921
0-1.8kW	0-750V DC	0-17A	19"x3Ux750	EPS/EL 9750-17B 3U	112922
0-3.6kW	0-750V DC	0-34A	19"x3Ux750	EPS/EL 9750-34B 3U	112923
0-5.4kW	0-750V DC	0-51A	19"x3Ux750	EPS/EL 9750-51B 3U	112924

*at <25°C



- Optional
- 2-Quadrant operation
 - Profi-Software
 - Calibration

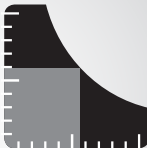
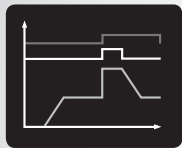


EPS/DCL

- 19" Built-in load up to 3000W
- Modi: I-, U-, P-, R-, MPPT
- Without display
- Controlling via the interface or panel PC
- Digital control (PID controller) with 100kHz sample rate
- Interface with 16 bit resolution
- Protection: OVP, UVP, OTP, OPP
- Integrated emergency stop function
- Master/Slave operation

The highlight of these modular DC loads is the control concept with its separation of the power unit and the operation unit. The load can either be controlled comfortably via a PC or optionally via a small control panel. Its inner values are remarkable, too, with a fully digital PID controller with 24-bit 100 kHz and a nominal value resolution of 16 bit. Thus, the rise time of 50µs to 2s can be selected as required. The 3000 W in a solid 3U enclosure are also worth mentioning. This series is exactly the right choice for demanding applications such as testing fuel cells, batteries, power supplies, generators and motors. For the solar sector any UI curves of the panels up to the lower range of 300mV can be recorded (with MPPT operation). This series also offers a new model with a DC load voltage of 800V designed especially for battery tests.

Power	Voltage	Current	WxHxD (mm)	Model	Webcode
0-3000W	0,3-60V DC	0,01-320A	19"x3Ux525	EPS/DCL3000-60-320	123110
0-3000W	0,3-84V DC	0,01-250A	19"x3Ux525	EPS/DCL3000-84-250	123787
0-3000W	1,5-800V DC	0,01-25	19"x3Ux525	EPS/DCL3000-800-25	123531



- Optional
- Touchpanel
 - User-Interface
 - WIN Hyperterminal program
 - Profil-Curve-Generator



EPS/EL 3000/9000

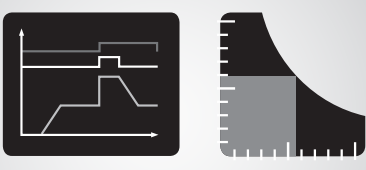
- High power load from 400 up to 7200W
- Modi: I, U, P, R
- Microprocessor controlled
- 1,6-times overloadable
- A/B-pulse operation
- Variable rise/fall time
- Battery test mode with time and capacity counter
- Protection: CV+CC, CC+CP, CP+CC, CR+CC
- Warranty extension optional



Here we are presenting a classic electronic load with modern features offering real added value. So you can, for example, switch back and forth very dynamically and with full control between two different set values (A - B). In clearly structured menus the values and times are configured easily and quickly. Via the intelligently made „System Bus“ a power supply for a 2-quadrant operation can also be connected. Thus, it allows you to easily implement tests for lithium batteries in the e-vehicle with automatic charge and discharge cycles or automotive electronics tests with the simulation of a voltage dip during a motor starting. Even charging and discharging ultracapacitors in test bays is no longer an issue. Do not miss the extended possibilities of a proven electronic load with a modern microprocessor controller.

Power*	Voltage	Current	WxHxD (mm)	Model	Webcode
0-400W	0-160V DC	0-60A	240x120x300	EPS/EL 3160-60	101941
0-400W	0-400V DC	0-25A	240x120x300	EPS/EL 3400-25	101942
0-2400W	0-80V DC	0-200A	19"x2Ux460	EPS/EL 9080-200	101906
0-4800W	0-80V DC	0-400A	19"x4Ux460	EPS/EL 9080-400	101897
0-7200W	0-80V DC	0-600A	19"x6Ux460	EPS/EL 9080-600	101907
0-2400W	0-160V DC	0-100A	19"x2Ux460	EPS/EL 9160-100	101908
0-4800W	0-160V DC	0-200A	19"x4Ux460	EPS/EL 9160-200	101909
0-7200W	0-160V DC	0-300A	19"x6Ux460	EPS/EL 9160-300	101898
0-2400W	0-400V DC	0-50A	19"x2Ux460	EPS/EL 9400-50	101912
0-4800W	0-400V DC	0-100A	19"x4Ux460	EPS/EL 9400-100	101910
0-7200W	0-400V DC	0-150A	19"x6Ux460	EPS/EL 9400-150	101911
0-2400W	0-750V DC	0-25A	19"x2Ux460	EPS/EL 9750-25	123520
0-4800W	0-750V DC	0-50A	19"x4Ux460	EPS/EL 9750-50	123521
0-7200W	0-750V DC	0-75A	19"x6Ux460	EPS/EL 9750-75	123522

*Nominal Power, reduced steady power (EPS/EL 9000)

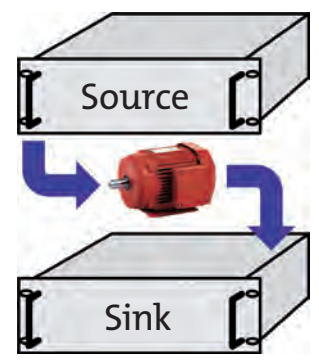


- Optional
- High Power Upgrade
 - Water cooling
 - Arbitrary and function generator
 - 2-Quadrant operation
 - Calibration



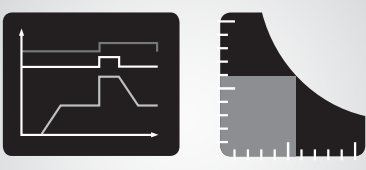
EPS/EL 9000 HP

- High power load from 400 up to 7200W
- Modi: I, U, P, R
- Microprocessor controlled
- 1,6-times overloadable
- A/B-pulse operation
- Variable rise/fall time
- Battery test mode with time and capacity counter
- Protection: CV+CC, CC+CP, CP+CC, CR+CC
- Warranty extension optional



At ambient temperatures above 40° C, the High Power „HP“ version of the EPS/EL 9000 Series is the order of the day. The „HP“ version has features identical to the standard load. However, we have built in special heavy-duty radiators and fans. At 40° C ambient temperature the „HP“ load has 60% more power and it is only at this temperature that derating, i.e. the power reduction in relation to temperature starts. Thus, the EPS/EL 9000 HP is ideal, if many units are installed in one rack without air conditioning or if it sometimes just gets a little hotter in the lab or in production.

Power	Voltage	Current	WxHxD (mm)	Modell	Webcode
0-2400W	0-80V DC	0-200A	19"x3Ux460	EPS/EL 9080-200 HP	112857
0-4800W	0-80V DC	0-400A	19"x6Ux460	EPS/EL 9080-400 HP	112860
0-7200W	0-80V DC	0-600A	19"x9Ux460	EPS/EL 9080-600 HP	123380
0-2400W	0-160V DC	0-100A	19"x3Ux460	EPS/EL 9160-100 HP	112858
0-4800W	0-160V DC	0-200A	19"x6Ux460	EPS/EL 9160-200 HP	112861
0-7200W	0-160V DC	0-300A	19"x9Ux460	EPS/EL 9160-300 HP	123381
0-2400W	0-400V DC	0-50A	19"x3Ux460	EPS/EL 9400-50 HP	112859
0-2400W	0-500V DC	0-50A	19"x3Ux460	EPS/EL 9500-50 HP	123790
0-4800W	0-400V DC	0-100A	19"x6Ux460	EPS/EL 9400-100 HP	112862
0-7200W	0-400V DC	0-150A	19"x6Ux460	EPS/EL 9400-150 HP	123382
0-7200W	0-500V DC	0-150A	19"x6Ux460	EPS/EL 9500-150 HP	123791
0-2400W	750V DC	0-25A	19"x3Ux460	EPS/EL 9750-25 HP	123524
0-4800W	750V DC	0-50A	19"x6Ux460	EPS/EL 9750-50 HP	123523
0-7200W	750V DC	0-75A	19"x9Ux460	EPS/EL 9750-75 HP	123525



- Optional
- Arbitrary and function generator
 - 2-Quadrant operation
 - Calibration

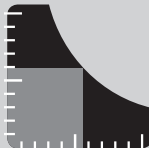
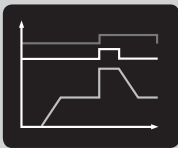


EPS/ELA

- Compact electronic load with 75W, 150W, 250W, 500W
- Available as desktop or 19“rack-mount unit
- In A/B-operation with 2 different nominal values, applicable for all operation modi
- Electronic controlled with latest MOS Technology
- Protection: CC, CP, OVP, OTP, reverse polarity

You certainly have worked with this DC load or a predecessor model, too. It is quasi laboratory standard and rightfully so. But with the latest MOS technology, the load is still a bit faster and more reliable. Also the voltage range can be lowered to 0.35V opening up many new fields of application. The intelligently designed features, such as reverse polarity protection, remote control port, interface with additional +15 VDC auxiliary voltage, local lockout, load-on delay and many more will help you save time and trouble thanks to its ease of operation.

Power	Voltage	Current	WxHxD (mm)	Model	Webcode
75W	0.35-75V DC	0-1A	70x220x340	EPS/ELA 250/75/1	102151
150W	0.35-75V DC	0-2A	70x220x340	EPS/ELA 250/75/2	122982
250W	0.35-75V DC	0-4A	70x220x340	EPS/ELA 250/75/4	122983
250W	0.35-75V DC	0-5A	70x220x340	EPS/ELA 250/75/5	122984
250W	0.35-75V DC	0-8A	70x220x340	EPS/ELA 250/75/8	122985
250W	0.35-75V DC	0-20A	70x220x340	EPS/ELA 250/75/20	101947
250W	0.35-75V DC	0-40A	70x220x340	EPS/ELA 250/75/40	102008
250W	0.35-160V DC	0-20A	70x220x340	EPS/ELA 250/160/20	102265
500W	0.35-75V DC	0-50A	130x220x340	EPS/ELA 505/75/50	102174
500W	0.35-75V DC	0-100A	130x220x340	EPS/ELA 505/75/100	102097
500W	0.35-160V DC	0-50A	130x220x340	EPS/ELA 505/160/50	122986



- Optional
- Precision load with highest resolution
 - Module programming and pulse generator
 - ATE version
 - Arbitrary and function generator

Customized Electronic Loads up to 500kW, bidirectional with energy recovery

EPS Electronic Power Supply will find the solution for your application! Made in Germany

The programmable DC loads of EPS Electronic Power Supplies with power regeneration offer new input voltages up to 1500V, currents up to 5100A, powers up to 200 kW and even cabinets up to 500kW. The devices include the typical modes Constant Current / Voltage (partly Power / Resistance) and are suitable for the most diverse areas of application.

In addition, the FPGA-based control unit (up to 200kW) provides several new features, such as function and arbitrary waveform generator as well as a table based regulation for monitoring temporal load profiles or for the simulation of nonlinear internal resistances, which can be formed by batteries or LED chains. Response times for control via analog or digital interfaces have been improved significantly thanks to the DSP-controlled hardware. The optional energy recovery function converts the supplied DC power into a synchronous sine current and feeds it back to the local or public grid. Thus the usual heat dissipation in burn-in test, alternator tests or battery capacity tests is almost completely eliminated while



Electronic tests which require higher dynamics for discharging

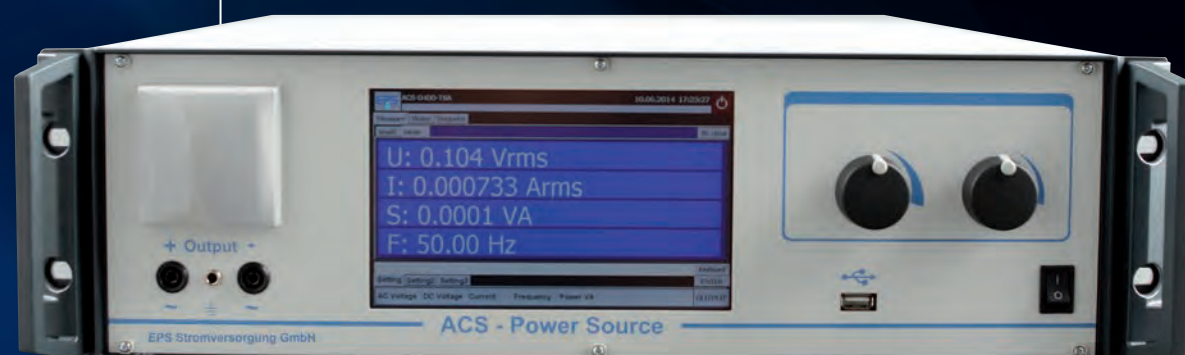
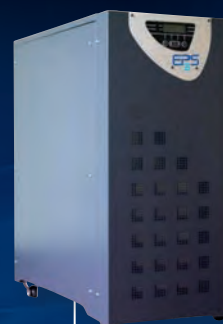
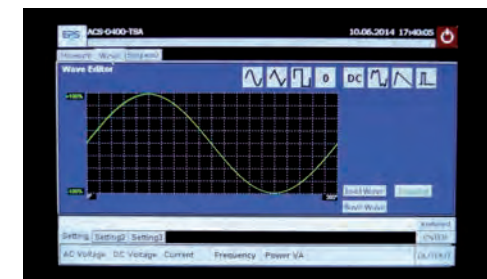
saving energy costs. The large resistive touch panel provides a more intuitive way of manual operation.

A share-bus or CAN-bus for balancing in parallel connection ensures the even distribution of the load current to each device.

- Operating modes Constant Voltage / Current (Resistance / Power)
- HMI TFT Touchpanel
- Wide operating range of up to 1500V or 5100A as one unit
- Parallel operation for higher load capacity
- Over-temperature protection
- Determination of the capacity of batteries in Ah (battery test)
- Batteries „in service“ test, which examines actual load currents by an additional current input
- Programmable switch off limits to avoid total discharge of the battery
- Optional automatic isolation unit, 3-phases



60kW Master-Slave-System

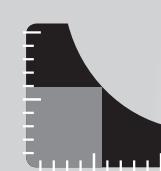
EPS/ACS
page 55EPS/AC
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EPS/ACS

- 19" Power Amplifier with 400VA up to 18kVA
- LCD-Display
- Waveform generation through DDS signal generator
- Output frequency 1-500Hz
- Measurement of U , I , I_{peak} , P_{eff} , P_{app} , Power factor, Crest factor
- Integrated disconnecter relays
- 20% Load power feed back
- Protection: OVP, OCP, OPP, OTP

Are precise measurements and simulations in the AC field an issue for you? The EPS/ACS series will convince you. The devices generate your signals by means of a precise DDS signal generator (direct digital synthesis) and supply the generated signals in linear MOSFET technology into the 4 quadrant amplifier. The result is a distortion factor of less than 0.2%. The large LCD display, the control knob and function keys help you to quickly adjust all specifications, which are displayed clearly. Here you can also see the latest monitor data. These power supplies can deliver peak currents of up to 120A, which are required for many electronic products with a high crest factor. Thanks to the AC, DC and AC-DC mode you are well equipped for most testing tasks in your laboratory.

Power	Voltage AC	Voltage DC	Current	Frequency	WxHxD (mm)	Modell	Webcode
400VA	0-300V AC	0-425VDC	3A	1-500Hz	19"x3Ux590	EPS/ACS 0400-PS	102187
800VA	0-300V AC	0-425VDC	6A	1-500Hz	19"x3Ux590	EPS/ACS 0800-PS	102209
1600VA	0-300V AC	0-425VDC	12A	1-500Hz	19"x6Ux590	EPS/ACS 1600-PS	102210
2200VA	0-300V AC	0-425VDC	16A	1-500Hz	19"x6Ux590	EPS/ACS 2200-PS	102211
3000VA	0-300V AC	0-425VDC	20A	1-500Hz	19"x6Ux590	EPS/ACS 3000-PS	102212
4600VA	0-300V AC	0-425VDC	30A	1-500Hz	19"x12Ux590	EPS/ACS 4600-PS	102213
6000VA	0-300V AC	0-425VDC	40A	1-500Hz	19"x12Ux590	EPS/ACS 6000-PS	123114
1200VA	0-300V AC, L-N	0-425VDC	3A	1-500Hz	19"x9Ux590	EPS/ACS 1200-3P	123127
690VA L-L	0-520V AC, L-L	0-425VDC	3A	1-500Hz	19"x9Ux590	EPS/ACS 1200-3P	123127
2400VA	0-300V AC, L-N	0-425VDC	6A	1-500Hz	19"x9Ux590	EPS/ACS 2400-3P	123126
1380VA L-L	0-520V AC, L-L	0-425VDC	6A	1-500Hz	19"x9Ux590	EPS/ACS 2400-3P	123126
4800VA	0-300V AC, L-N	0-425VDC	12A	1-500Hz	19"x18Ux590	EPS/ACS 4800-3P	123130
2770VA L-L	0-520V AC, L-L	0-425VDC	12A	1-500Hz	19"x18Ux590	EPS/ACS 4800-3P	123130
6600VA	0-300V AC, L-N	0-425VDC	16A	1-500Hz	19"x18Ux590	EPS/ACS 6600-3P	123132
3815VA L-L	0-520V AC, L-L	0-425VDC	16A	1-500Hz	19"x18Ux590	EPS/ACS 6600-3P	123132
9000VA	0-300V AC, L-N	0-425VDC	20A	1-500Hz	19"x18Ux590	EPS/ACS 9000-3P	123134
5200VA L-L	0-520V AC, L-L	0-425VDC	20A	1-500Hz	19"x18Ux590	EPS/ACS 9000-3P	123134
13800VA	0-300V AC, L-N	0-425VDC	30A	1-500Hz	19"x36Ux590	EPS/ACS 13800-3P	123136
7970VA L-L	0-520V AC, L-L	0-425VDC	30A	1-500Hz	19"x36Ux590	EPS/ACS 13800-3P	123136
18000VA	0-300V AC, L-N	0-425VDC	40A	1-500Hz	19"x36Ux590	EPS/ACS 18000-3P	123145
10400VA L-L	0-520V AC, L-L	0-425VDC	40A	1-500Hz	19"x36Ux590	EPS/ACS 18000-3P	123145



Optional

- Touch Screen Display (from 1600VA 1-phase)
- Output frequency 1000Hz, 2000Hz, 15kHz to 100kHz
- Output 700VAC and/or 1000VDC

- Output 500VAC and/or 700VDC
- 20 programmable sequence operation
- External oscillator input
- 3-Phase operation
- 100% Load power feed back



EPS/AC

- 19“units and/or cabinet systems from 500VA up to 30kVA
- Variable and fix output frequency to 500Hz
- Linear- and Switching-technology
- Models with one and three phase output
- Risetime adjustable 0,1-100s (Softstart)
- Protection: OVP, OPP, OTP

Our AC/AC series meets all requirements on basic equipment in every respect. The devices are controlled fully electronically. Depending on the application, you can choose between switching or linear topology. With its solid and tried and tested design, this easy-to-use source has proved itself in everyday work be it in the heavy industrial environment or under the lab bench. The output is galvanically isolated from the input. The required voltage, current and frequency are quickly adjusted by means of the pots or can be programmed via the integrated interface via SCPI command set. The cost-benefit ratio will convince you, too.

Linear technology

Power	Voltage	Current (0-150V)	Current (150-300V)	Frequency	WxHxD (mm)	Model	Webcode
500VA	0-300V AC	max. 4,2A	max. 2,1A	40-500Hz	19“x4Ux550	EPS/AC 300-4.2-500LR	123689
1000VA	0-300V AC	max. 8,4A	max. 4,2A	40-500Hz	19“x4Ux550	EPS/AC 300-8,4-1000LR	123698
3000VA	0-300V AC	max. 25A	max. 12,5A	40-500Hz	19“x9Ux550	EPS/AC 300-25-3000LR	123699
5000VA	0-300V AC	max. 42A	max. 21A	40-500Hz	600x25Ux900	EPS/AC 300-42-5000LR	123700

Switching technology

Power	Voltage	Current (0-150V)	Current (150-300V)	Frequency	WxHxD (mm)	Model	Webcode
2000VA	0-300V AC	max. 16,8A	max. 8,4A	40-450Hz	9,5“x9Ux550	EPS/AC 300-16.8-2000	123724
3000VA	0-300V AC	max. 25A	max. 12,5A	40-450Hz	9,5“x9Ux550	EPS/AC 300-25-3000	123690
5000VA	0-300V AC	max. 42A	max. 21A	40-450Hz	19“x9Ux550	EPS/AC 300-42-5000	123691
7500VA	0-300V AC	max. 63A	max. 31,5A	40-450Hz	19“x9Ux550	EPS/AC 300-63-7500	123692
10000VA	0-300V AC	max. 84A	max. 42A	45-250Hz	19“x14Ux550	EPS/AC 300-84-10000	123693
15000VA	0-300V AC	max. 125A	max. 62,5A	45-250Hz	19“x14Ux550	EPS/AC 300-125-15000	123694
3x2000VA(L-N)	0-300V AC, L-N						
3460VA (L-L)	0-520V AC, L-L	max. 16,8A	max. 8,4A	45-450Hz	560x1170x760	EPS/AC3P 520-16,8-6000	102551
3x3000VA(L-N)	0-300V AC, L-N						
5190VA (L-L)	0-520V AC, L-L	max. 25A	max. 12,5A	45-450Hz	560x1170x760	EPS/AC3P 520-25-9000	102552
3x7500VA(L-N)	0-300V AC, L-N						
12975VA (L-L)	0-520V AC, L-L	max. 63A	max. 31,5A	45-450Hz	560x1837x760	EPS/AC3P 520-63-22500	102553
3x10000VA(L-N)	0-300V AC, L-N				2 cabinets		
17300VA (L-L)	0-520V AC, L-L	max. 84A	max. 42A	45-250Hz	560x1614x760	EPS/AC3P 520-84-30000	102554



- Optional
- Expanded Voltage range to 600V
 - Expanded frequency range linear to <1000Hz



- Optional
- Isolation transformer
 - Input Voltage 115V/200V/400V
 - Output frequency 400Hz (only EPS/CO20)

EPS/CO

- 19“ Converter with 4600W to 14.950W
- Constant current characteristic
- Save double conversion technology
- Microprocessor controlled
- Digital display for output current and voltage
- Analog Interface
- Protection: OPP, OTP

These AC/AC converters have been specially developed for the simulation of non-European grids. Simply adjust the required voltage continuously to up to max. 270V, select the frequency (50/60Hz) and test, check and evaluate your products for the international market. The AC/AC converter also serves as a „stable“ power supply for the European grid, without voltage fluctuations and with a clean sine wave. There is also an interface for automated tests. This product series is a powerful and cost-effective alternative to AC-sources for laboratory use.

Power	Voltage	Current/230V	Frequency	WxHxD (mm)	Model	Webcode
4600W	0-270V AC (L-N)	20A	50/60Hz	19“x 5Ux520	EPS/CO 20FR0-11	100953
6900W	0-270V AC (L-N)	30A	50/60Hz	19“x 5Ux520	EPS/CO 30FR0-11	100954
10350W	0-270V AC (L-N)	45A	50/60Hz	19“x 5Ux720	EPS/CO 45FR0-31	100955
14950W	0-270V AC (L-N)	65A	50/60Hz	19“x 5Ux720	EPS/CO 65FR0-31	100956



EPS/FC10-315

- High power moduls for avionic applications
- Power 10-315kVA, 400Hz
- Output pure sine wave
- Digital display for output voltage, -current as well frequency
- Parallel operation possible
- 1.5-times overload capability
- Protection: OTP

Power	Voltage Output	Frequency Output	WxHxD (mm)	Model	Webcode
10kVA	3x200/115VAC	400Hz	800x1200x600	EPS/FC 1040033	102249
20kVA	3x200/115VAC	400Hz	800x1200x600	EPS/FC 2040033	102251
30kVA	3x200/115VAC	400Hz	800x1200x600	EPS/FC 3040033	102260
40kVA	3x200/115VAC	400Hz	800x1500x600	EPS/FC 4040033	102261
60kVA	3x200/115VAC	400Hz	1200x1500x600	EPS/FC 6040033	123202
90kVA	3x200/115VAC	400Hz	1200x1800x600	EPS/FC 9040033	123586
120kVA	3x200/115VAC	400Hz	1200x1800x600	EPS/FC 12040033	123587
150kVA	3x200/115VAC	400Hz	1200x1800x600	EPS/FC 15040033	102653
180kVA	3x200/115VAC	400Hz	1200x1800x600	EPS/FC 18040033	102654
270kVA	3x200/115VAC	400Hz	1500x1850x950	EPS/FC 27040033	102930
315kVA	3x200/115VAC	400Hz	1500x1850x950	EPS/FC 31540033	102497

These high-performance modules have been designed specifically for all aviation applications. Consistently designed for maximum reliability and availability the devices comply with EN2282 and ISO 6858. Whether in training centers, in service centers or in production, these power units meet all tasks. The power supplies can be adapted in many ways to your specific requirements.



- Optional
- Battery buffering
 - Isolation
 - Multifunction-LCD-Display
 - Output frequency 50/60/800Hz
 - Additional 28VDC output
 - Expanded temperature range/-protection



EPS/FC

- Built-in and 19“ AC/AC Converter from 250 to 2000VA
- 1-phase input / 1-phase output
- Microprocessor controlled
- Multiple variable, modular concept
- Pure sine wave
- Protection: OCP, OTP
- MTBF min. 90.000 hours at 45°C



Your applications are as varied as the EPS/FC series. The table only shows a very small selection of all versions available. Due to the innovative concept, a wide range of input voltages and frequencies can be converted into virtually all output voltages used worldwide. The high efficiency and compact design make for reliable use in industry and avionics. Whenever you have to convert voltages and frequencies for foreign devices or you want to make sure your European equipment works reliably anywhere in the world, this series is just right. And the price is right, too!

The EPS/FC series with 2000VA also provides a version for diesel generators, which converts the extremely „dirty“ input voltage (rectangular shape) into a beautiful sine wave voltage. Thus even sensitive equipment and control systems can be operated safely in mobile applications.

Power	Voltage Output	Frequency Output	Mains	WxHxD (mm)	Model	Webcode
250VA	115V AC	60Hz	196-264V 1-ph (47-63Hz)	132x64x300	EPS/FC250-EA	123915
250VA	115V AC	400Hz	196-264V 1-ph (47-63Hz)	132x64x300	EPS/FC250-EM	123916
250VA	230V AC	50Hz	115V 1-Ph (47-63Hz)	132x64x300	EPS/FC250-AE	123917
250VA	115V AC	400Hz	115V 1-Ph (47-63Hz)	132x64x300	EPS/FC250-AM	123766
300VA	115V AC	60Hz	95-264V 1-ph (47-63Hz)	153x67x357	EPS/FCP300-UA	123918
300VA	115V AC	400Hz	95-264V 1-ph (47-63Hz)	153x67x357	EPS/FCP300-UM	123919
300VA	230V AC	50Hz	95-264V 1-ph (47-63Hz)	153x67x357	EPS/FCP300-UE	123920
500VA	115V AC	60Hz	95-264V 1-ph (47-63Hz)	132x132x407	EPS/FC500-UA	123921
500VA	115V AC	400Hz	95-264V 1-ph (47-63Hz)	132x132x407	EPS/FC500-UM	123922
500VA	230V AC	50Hz	115V 1-Ph (47-63Hz)	132x132x407	EPS/FC500-AE	123923
1000VA	115V AC	60Hz	95-264V 1-ph (47-63Hz)	187x132x407	EPS/FC1000-UA	123924
1000VA	115V AC	400Hz	95-264V 1-ph (47-63Hz)	187x132x407	EPS/FC1000-UM	123925
1000VA	230V AC	50Hz	115V 1-Ph (47-63Hz)	187x132x407	EPS/FC1000-AE	123926
1500VA	115V AC	60Hz	95-264V 1-ph (47-63Hz)	483x132x407	EPS/FC1500-UA	123927
1500VA	115V AC	400Hz	95-264V 1-ph (47-63Hz)	483x132x407	EPS/FC1500-UM	123928
1500VA	230V AC	50Hz	115V 1-Ph (47-63Hz)	483x132x407	EPS/FC1500-AE	123929
2000VA	115V AC	60Hz	95-264V 1-ph (47-63Hz)	483x132x407	EPS/FC2000-UA	123930
2000VA	115V AC	400Hz	95-264V 1-ph (47-63Hz)	483x132x407	EPS/FC2000-UM	123931
2000VA	230V AC	50Hz	115V 1-Ph (47-63Hz)	483x132x407	EPS/FC2000-AE	123932

- Optional
- 19“ housing
 - Tropical protection
 - Increased ruggedizing
 - Isolated, floating output

- Power fail alarm
- External shutdown
- Expanded power/temperature range
- UL/CSA conform



EPS/FTP-FTT

- Input- and 19“ AC/AC converter from 1.500VA to 6.000VA
- EPS/FTP: 1-Phase input / 3-Phases output
- EPS/FTT: 3-Phase input / 3-Phases output
- Microprocessor controlled
- Multiple variable, modular concept
- Pure sine wave
- Wide input range with PFC
- Protection: OCP, OTP
- MTBF min. 75.000 hours at 45°C

If you go for solid quality, combined with legendary reliability and a long service life, you cannot go wrong with these series. The EPS/FTP models have a 1-phase and the EPS/FTT models a 3-phase input. Both models have a 3-phase output, which is still widely customizable on request. Thanks to a consistently modular design, we are happy to design your AC/AC converter individually, even if you order only one unit!

The devices have proven excellent for many years in the following areas: military, marine, mining, avionics, railway, telecommunications and industry. In United States these devices are referred to as „fully rugged“ or „heavy duty“.

Power	Voltage Output	Frequency Output	Mains	WxHxD (mm)	Model	Webcode
1500VA	208 / 115V 3-Ph + N	60 Hz	196-264V 1-ph (47-63Hz)	432x132x407	EPS/FTP 1500-UA	123537
1500VA	208 / 115V 3-Ph + N	400 Hz	196-264V 1-ph (47-63Hz)	432x132x407	EPS/FTP 1500-UM	123847
1500VA	400 / 230V 3-Ph + N	50 Hz	115V 1-Ph (47-410Hz)	432x132x407	EPS/FTP 1500-AE	123840
3000VA	208 / 115V 3-Ph + N	60 Hz	196-264V 1-ph (47-63Hz)	19“x6Ux432	EPS/FTP 3000-UA	123841
3000VA	208 / 115V 3-Ph + N	400 Hz	196-264V 1-ph (47-63Hz)	19“x6Ux432	EPS/FTP 3000-UM	123108
3000VA	400 / 230V 3-Ph + N	50 Hz	115V 1-Ph (47-410Hz)	19“x6Ux432	EPS/FTP 3000-AE	123842
Power	Voltage Output	Frequency Output	Mains	WxHxD (mm)	Model	Webcode
1500VA	208 / 115V 3-Ph + N	60 Hz	400V 3-ph (47-410Hz)	432x132x407	EPS/FTT 1500-UA	112393
1500VA	208 / 115V 3-Ph + N	400 Hz	400V 3-ph (47-410Hz)	432x132x407	EPS/FTT 1500-UM	123220
1500VA	400 / 230V 3-Ph + N	50 Hz	208V 3-ph (47-410Hz)	432x132x407	EPS/FTT 1500-AE	123843
3000VA	208 / 115V 3-Ph + N	60 Hz	400V 3-ph (47-410Hz)	19“x6Ux432	EPS/FTT 3000-UA	102335
3000VA	208 / 115V 3-Ph + N	400 Hz	400V 3-ph (47-410Hz)	19“x6Ux432	EPS/FTT 3000-UM	112394
3000VA	400 / 230V 3-Ph + N	50 Hz	208V 3-ph (47-410Hz)	19“x6Ux432	EPS/FTT 3000-AE	112380
6000VA	208 / 115V 3-Ph + N	60 Hz	400V 3-ph (47-410Hz)	19“x9Ux432	EPS/FTT 6000-UA	123844
6000VA	208 / 115V 3-Ph + N	400 Hz	400V 3-ph (47-410Hz)	19“x9Ux432	EPS/FTT 6000-UM	123845
6000VA	400 / 230V 3-Ph + N	50 Hz	208V 3-ph (47-410Hz)	19“x6Ux432	EPS/FTT 6000-AE	123846

Optional

- Further in- and output voltages and frequencies
- Tropical protection, increased ruggedizing

- Power fail alarm
- External shutdown
- Expanded temperature range
- UL/CSA conform



EPS/K

- Compact stand-alone unit with 600VA to 40kVA
- 1-phase or 3-phase input
- Graphical LCD user panel
- Microprocessor controlled
- Pure sine wave output
- Up to 1,5-times Overload capability
- Protection: OTP, Error display
- Interfaces only with monitor function

These converters will be needed, if you produce, develop or test equipment for foreign grids (i.e. U.S.A, Japan, etc.). And besides, you can use these converters abroad, if you want to simulate the European grid to power 230V / 50Hz devices. These AC/AC converters are simple and economical in use and thanks to the strictly modular design they are configured as required in our factory. Choose from various input voltages for the European or a non-European grid. By means of a power supply module, we adjust the mains frequency (50 or 60 Hz) to the required output frequency. And to top it off, we generate the output voltage as requested by means of an isolating transformer so that you are reliably provided with the required voltage and frequency at your workplace. So you do your development and testing with documented parameters, pure sine wave - and a very good feeling.

Stand-alone unit downconverter with isolation transformer /output

Power	Input Voltage	Output Voltage	Frequency	WxHxD (mm)	Model	Webcode
600VA	230V AC	115V AC	60Hz	145x200x397	EPS/K 010230115	123663
1200VA	230V AC	115V AC	60Hz	190x318x421	EPS/K 020230115	123612
1800VA	230V AC	115V AC	60Hz	190x318x421	EPS/K 030230115	123664
3600VA	230V AC	115V AC	60Hz	250x576x592	EPS/K 060230115	123665
6000VA	230V AC	115V AC	60Hz	250x576x592	EPS/K 100230115	123666
10000VA	400V AC, 3ph	115V AC	60Hz	250x576x592	EPS/K 100400115	123667
20000VA	400V AC, 3ph	115V AC	60Hz	250x826x862	EPS/K 200400115	123668

Stand-alone unit upconverter with isolation transformer / input

Power	Input Voltage	Output Voltage	Frequency	WxHxD (mm)	Model	Webcode
600VA	115V AC	230V AC	50Hz	145x200x397	EPS/K 010115230	123669
1200VA	115V AC	230V AC	50Hz	190x318x421	EPS/K 020115230	123670
1800VA	115V AC	230V AC	50Hz	190x318x421	EPS/K 030115230	123671
3600VA	115V AC	230V AC	50Hz	250x576x592	EPS/K 060115230	123672
6000VA	115V AC	230V AC	50Hz	250x576x592	EPS/K 100115230	123673

Stand-alone units 3 phase to 1 phase

Power	Input Voltage	Output Voltage	Frequency	WxHxD (mm)	Model	Webcode
10kVA	400V AC, 3ph	230V AC	50Hz	400x900x900	EPS/K 010402331	123636
20kVA	400V AC, 3ph	230V AC	50Hz	400x900x900	EPS/K 020402331	123638
30kVA	400V AC, 3ph	230V AC	50Hz	400x900x900	EPS/K 030402331	123640
40kVA	400V AC, 3ph	230V AC	50Hz	400x900x900	EPS/K 040402331	123642



(only monitor)



(only monitor)

Optional

- Output voltage 110V or 120V
- Output voltage 220V or 240V
- Output voltage 0-270V, 1 phase
- 230 / 230 V model
- Frequency conversion 50/60Hz
- 19“ Rack-mounting

Customized AC/AC Converters up to 630kVA / 15-800Hz, bidirectional with Power Recovery

AC/AC Converters from EPS Electronic Power Supplies are characterized mainly by a unique variety of standard units as well as high flexibility in terms of customized devices. Made in Germany.

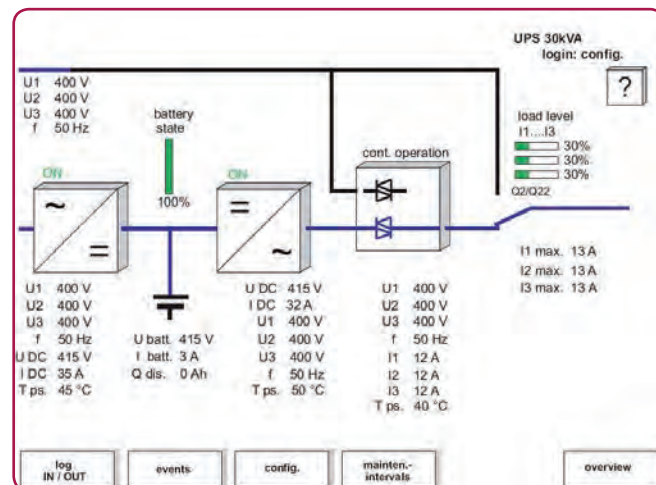
AC/AC Frequency Converters from 10 to up to 500kVA / 15-800Hz - also bidirectional

Our custom frequency converters generate a 1 or 3-phase output voltage from a 1 or 3-phase input voltage. The output frequencies are fixed or adjustable between 16.7 and 800Hz. A galvanic isolation is carried out with the downstream isolating transformer, which adjusts the voltage at the same time. The sinusoidal output voltage of the transformer is electronically controlled. As a result, this voltage is constant regardless of changes in load or input voltage.

The power flow can occur in both directions (option sink). There is a smooth transition between source and sink. Loads can therefore operate as source or sink and thus determine the power flow. For this reason, it is not possible to specify a current or power. For this reason it is not possible to specify the current or the power. The AC source / sink can be seen as a network simulator, with the specified voltage and frequency. Connected active loads need to synchronize to it.

An automatic filter charging circuit with resistors and bypass contactor limits the output current. The converter is also overload and short-circuit protected. For a short time, the inverter provides twice the rated current. The mains input voltage is monitored for overvoltage and undervoltage, which immediately stop the inverter.

The control unit, mainly with VGA-TFT touchscreen display, is the interface between device and user. Here you can call up measured values, set values can be changed and the operating mode can be selected. Multiple devices can be configured by one control unit. Remote communication takes place via a RS232 interface and an independent CAN bus or via an optional RS485 interface. Thus, it can be connected to a computer network.



TFT Touch panel for the programming of the output parameters



Bidirectionality: Charging of EV and PHEV with up to 600V and 30kVA



Ship supply 20kVA

Aircraft ground support

Converter for 400Hz aircraft simulation

- 3-phase, wide input range, sinusoidal
- Constant current operation
- 400Hz input frequency possible
- Output selection: 3-phase AC output voltage or 3 individual DC voltages
- Each output (voltage, frequency) is separately programmable via RS232 interface
- Various integrated control and protection functions

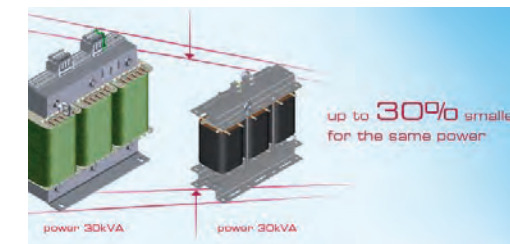


Avionic-Test 50kVA and 400Hz

Transformers from 5 to 630kVA

Reducing the losses of a transformer is an important aspect in new developments. Our energy-efficient transformers will also save you costs. The new EPS transformers are 30% smaller in volume while delivering the same performance.

- Compact design thanks to innovative core technology
- Reduction of noise emissions by special core nesting
- Designed for the smallest volume possible
- Variable voltage choice
- Can be used worldwide according to international standards



Switch- On Current Limiter 1 and 3 Phase

Inrush currents can lead to unwanted triggering of fuse elements when loads are switched on. The switch-on current limiter is the solution, if you need to selectively protect individual circuits. This new switch-on current limiter not only limits the switch-on surge - as with traditional switch-on current limiters - but avoids it altogether thanks to the soft-switch process. The relay can also be used as a power switch, when it is activated via the control input (there is no potential isolation in this application).

EPS/GWH
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EPS/GWH

- Built-in converter with 100 and 500W
- Parallel- and n+1 Redundancy operation
- Wide input voltage ranges
- Various control function
- Protection: OVP, OTP, OPP
- Design: Wall and 19" mounting, Din-Rail

Compact, robust, reliable! With little modifications the converters are even railway approved and have successfully been in use worldwide for various railroads for many years. The power supplies are available with many protection and control functions on request. Likewise, you can interconnect the converters in parallel with active „current sharing“ and redundantly. Due to the digital interfaces, the units are also ideal for remote control and monitoring. If the reliability of a power supply is the priority, the EPS/GWH series is the right choice.

Power	Voltage	Current	Input Voltage	WxHxD (mm)	Model	Webcode
100W	24V DC	4.2A	16.8-32V DC	68.5x125x125	EPS/GWH 24/24/4.2	112820
100W	48V DC	2.1A	16.8-32V DC	68.5x125x125	EPS/GWH 24/48/2.1	112822
100W	60V DC	1.7A	16.8-32V DC	68.5x125x125	EPS/GWH 24/60/1.7	112823
100W	24V DC	4.2A	33.6-78V DC	68.5x125x125	EPS/GWH 48/24/4.2	112824
100W	48V DC	2.1A	33.6-78V DC	68.5x125x125	EPS/GWH 48/48/2.1	112825
100W	60V DC	1.7A	33.6-78V DC	68.5x125x125	EPS/GWH 48/60/1.7	112826
100W	24V DC	4.2A	77-143V DC	68.5x125x125	EPS/GWH 110/24/4.2	112827
100W	48V DC	2.1A	77-143V DC	68.5x125x125	EPS/GWH 110/48/2.1	112828
100W	60V DC	1.7A	77-143V DC	68.5x125x125	EPS/GWH 110/60/1.7	112829
500W	24V DC	20.8A	16.8-39V DC	225x125x125	EPS/GWH 24/24/20.8	112830
500W	48V DC	10.4A	16.8-39V DC	225x125x125	EPS/GWH 24/48/10.4	102051
500W	60V DC	8.3A	16.8-39V DC	225x125x125	EPS/GWH 24/60/8.3	101961
500W	24V DC	20.8A	33.6-78V DC	225x125x125	EPS/GWH 48/24/20.8	112833
500W	48V DC	10.4A	33.6-78V DC	225x125x125	EPS/GWH 48/48/10.4	112834
500W	60V DC	8.3A	33.6-78V DC	225x125x125	EPS/GWH 48/60/8.3	112835
500W	24V DC	20.8A	77-162.5V DC	225x125x125	EPS/GWH 110/24/20.8	112836
500W	48V DC	10.4A	77-162.5V DC	225x125x125	EPS/GWH 110/48/10.4	102128
500W	60V DC	8.3A	77-162.5V DC	225x125x125	EPS/GWH 110/60/8.3	112838



- Optional
- Increased ruggedizing
 - Railway service qualification (EN50155 / EN50121)
 - Parallel operation (100W Type)
 - Wall mounting
 - 19"-rack mounting (500W Typ)

Customized DC/DC Converters up to 40kW and 800V

DC/DC Converters from EPS Electronic Power Supplies are characterized mainly by a unique variety of standard units as well as high flexibility in terms of customized devices. Made in Germany.

Our DC / DC converter can be used to produce from a central battery voltage from 10V until 800V DC, load voltages from 5V until 800V DC. The converters are designed using the latest semiconductor technology. The devices can be connected in parallel for redundancy and capacity. They are used in Automotive, in the communications sector and in the industrial application area. The high efficiency, the comprehensive protection as well control facilities and numerous options characterize these converters.

Choose from the following features and create your individual DC/DC converter:

- Robust design and high reliability
- Thermal shutdown with auto restart
- Overvoltage protection
- Continuous short circuit protection
- Analog or digital programming (RS232/CAN)
- Hermetically sealed, IP54
- Reverse polarity protection
- Remote On/Off (Inhibit)
- Parallel and redundant operation
- Extended operating temperature -40 °C to + 75 °
- Water cooling
- Tropical protection
- Design: 19 „rack mount, wall mounting
- Suitable for railway



Water cooled DC/DC Converter 22kW

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Eps/MEC-PB
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EPS/MEC-PB

- Output Voltage 150, 300, 600 and 1000VA
- Wall mounting
- High efficiency
- Input and Output isolated
- Pure sinewave output
- Protection: OVP, UVP, OPP, OTP, Short-circuit

Whenever a 230V power supply is not available, you can still efficiently supply your notebook, your TV or other devices with battery power (12 or 24 V). Especially truckers and campers greatly appreciate this, as do R&D departments in the automotive sector. And to always work in the safe area, the inverters have numerous protection and monitoring equipment on board.



EPS/CSI+CTP
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EPS/SR
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Power	Output Voltage	Input Voltage	WxHxD (mm)	Model	Webcode
150VA	230V AC	11-16V DC	147x66x210	EPS/MEC-PB 150-12B	101119
150VA	230V AC	21-30V DC	147x66x210	EPS/MEC-PB 150-24B	101120
300VA	230V AC	11-16V DC	147x66x210	EPS/MEC-PB 300-12B	101121
300VA	230V AC	21-30V DC	147x66x210	EPS/MEC-PB 300-24B	101122
600VA	230V AC	11-16V DC	236x83x280	EPS/MEC-PB 600-12B	100993
600VA	230V AC	21-30V DC	236x83x280	EPS/MEC-PB 600-24B	100997
1000VA	230V AC	11-16V DC	236x83x395	EPS/MEC-PB 1000-12	101123
1000VA	230V AC	21-30V DC	236x83x395	EPS/MEC-PB 1000-24	101124



EPS/CSI+CTP

- Rugged DC/AC Converter with 1.000, 1.500, 3.000 and 6.000VA
- Microprocessor controlled
- Pure sine wave output
- MTBF 95.000 hours at 45°C (min.)
- UL/CSA conform
- Protection: OVP, UVP, OPP, OTP, reverse polarity

Rugged quality, combined with legendary reliability and durability are paramount with these converters. „Fully rugged“ or „heavy-duty“ par excellence. Thanks to a consistently modular design we can provide your individually designed DC/AC converter. With all the ruggedizing, we have yet used the finest electronics for the control and monitoring of the converter providing you with a pure, precise sine wave already at the output. The units have proven themselves outstanding for many years in the following areas: military, navy, mining, railway, telecommunication and industry. So you may expect this for your application, too!

Power	Output Voltage	Input Voltage	WxHxD (mm)	Model	Webcode
1.000VA	230V AC (50Hz)	48V DC	187x132x407	EPS/CSI 1000-48-230	112930
1.000VA	230V AC (50Hz)	125V DC	187x132x407	EPS/CSI 1000-125-230	112931
1.500VA	230V AC (50Hz)	48V DC	187x132x407	EPS/CSI 1500-48-230	112932
1.500VA	230V AC (50Hz)	125V DC	187x132x407	EPS/CSI 1500-125-230	112933
3.000VA	230V AC (50Hz)	48V DC	432x132x407	EPS/CSI 3000-48-230	112934
3.000VA	230V AC (50Hz)	125V DC	305x132x407	EPS/CSI 3000-125-230	112935
3.000VA	230V AC (50Hz)	250V DC	305x132x407	EPS/CSI 3000-250-230	112936
3.000VA	400V AC (3-Ph. / 50Hz)	125V DC	432x132x407	EPS/CTP 3000-125-400	112937
3.000VA	400V AC (3-Ph. / 50Hz)	250V DC	432x132x407	EPS/CTP 3000-250-400	112938
6.000VA	400V AC (3-Ph. / 50Hz)	125V DC	432x400x407	EPS/CTP 6000-125-400	112939
6.000VA	400V AC (3-Ph. / 50Hz)	250V DC	432x400x407	EPS/CTP 6000-250-400	112940

- Optional
- Wall or 19" mounting
 - Expanded input temperature
 - Further input and output voltages and frequencies
 - Tropical protection, increased ruggedizing



EPS/SR

- 19" 1U DC/AC Converter with 1000W
- LED/LCD graphical display
- Microprocessor controlled
- Pure sine wave output
- Bypass relay
- Software for Power and Alarm-Management
- Protection: OVP, UVP, OPP, OTP, Reverse Polarity

These inverters provide security, i.e. safety during a grid failure and with fluctuating mains supply. For nowadays, it is not uncommon that your expensive IT equipment is damaged by overvoltage. With the high-quality 48V inverters and a powerful battery stack you can build up an independent power supply so that you are well prepared in cases of grid fluctuations and breakdowns.

Power	Output Voltage	Input Voltage	WxHxD (mm)	Model	Webcode
1000VA	194-246V AC	18-30V DC	19"x1Ux345	EPS/SR1000-224	102484
1000VA	194-246V AC	36-60V DC	19"x1Ux345	EPS/SR1000-248	102486



Customized DC/AC inverter up to 650kVA

EPS Electronic Power Supply will find the solution for your application! Made in Germany



Power plant

DC/AC Power Inverter System up to 650kVA

Our wide range of DC / AC power inverters is suitable for almost all applications, where a rugged design and absolute reliability are required in critical ambient conditions. EPS covers almost all input and output voltages with its large product portfolio and offers a wide range of housing options as well. The power supplies are used in many different applications in industry, power plants, energy distribution as well as oil and gas extraction.

EPS supplies inverters according to input DC voltage, capacity and application in different versions and in the following main categories:

1. Single phase, static Inverter (up to 200kVA)
2. Three-phase, static Inverter (up to 650kVA)
3. Static inverter in plug-in technology with input voltages in the range of 10 V - 800 VDC (up to 45kVA)



Dredger



Operating at an dredger with 160kVA

Railway application DC/AC 3-phase

- Design in most modern IGBT/PWM technology
- High input voltage range up to 1000V DC
- Digital microprocessor control
- Pure sine wave output
- Short-circuit and high overload protection
- Alarm and event store
- Partially colored TFT Panel



Freight train

Options

- Fixed frequencies quartz stabilized or synchronized grid
- Programmable frequencies 16 2/3 - 400 Hz (up to 500kVA), 40-800 (up to 45kVA)
- Interoperable communication interface
- Parallel operation and hot stand-by redundancy
- Increased level of protection
- Protection against spikes and bursts
- Modular system with interchangeable Inverters possible
- UPS design
- Electronic bypass/service bypass
- System performance up to 1,5MVA



Customized Power Supply



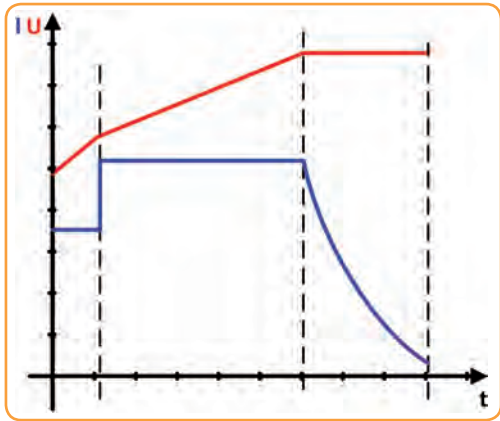
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Charging profile for Lilo batteries

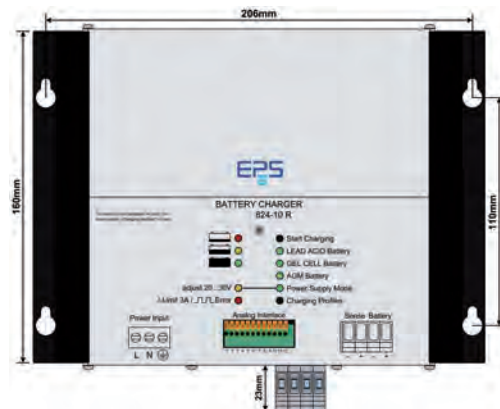
EPS/BCI

- Compact built-in chargers with 320W, 640W, 1000W and 1500W
- LCD graphical display
- Microprocessor controlled
- For Li-Ion, Pb, NiCd and NiMH batteries
- Free programmable charging characteristic
- Temperature compensated charging cycles
- Voltage compensation via remote sensing
- Protection: OVP, OTP, short circuit, reverse polarity

Never again 5 or more different chargers on your workbench or in the test stand. If you need to charge different types of batteries, you need only one charger now. Thanks to the clear menu prompt, the corresponding predefined charging characteristic is selected or freely programmed. No matter if pre-charging, boost charging, absorption or trickle charging is required, all parameters can be customized by you and stored according to the type of battery. So each battery can be charged optimally and the best result in terms of capacity as well as service life can be achieved. The optionally available digital interfaces turn your charger into a comfortable charger computer.

Power	Voltage	Current	WxHxD (mm)	Model	Webcode
320W	0-16V	20A	218x83x163	EPS/BCI 812-20R	112705
320W	0-32V	10A	218x83x163	EPS/BCI 824-10R	112775
320W	0-65V	5A	218x83x163	EPS/BCI 848-05R	122882
640W	0-32V	20A	218x83x163	EPS/BCI 824-20R	122883
640W	0-65V	10A	218x83x163	EPS/BCI 848-10R	122884
640W	0-16V	40A	90x360x240	EPS/BCI 812-40R	122885
1000W	0-16V	60A	90x360x240	EPS/BCI 812-60R	122886
1500W	0-32V	40A	90x360x240	EPS/BCI 824-40R	122887
1500W	0-32V	60A	90x360x240	EPS/BCI 824-60R	122888
1500W	0-65V	40A	90x360x240	EPS/BCI 848-40R	122889





EPS/BC

- Compact built-in chargers with 300W, 600W, 1200W and 1500W
- Microprocessor controlled
- For different lead-acid batteries (liquid, gel, felt soaked)
- Temperature compensated charging cycles
- Voltage compensation via remote sensing
- High efficiency
- Protection: OVP, OTP, short circuit, reverse polarity

Do you know by how many charging cycles the service life is increased, if the correct charging parameters are selected and the battery is continuously monitored during charging? To answer this question, this charger has been designed. Simply select the type of battery, attach the temperature sensor and the microprocessor will calculate the correct charging strategy, no matter if the battery is deeply discharged or a maintenance charging is needed. And if you just need a power supply, simply switch into the power supply mode and adjust the required voltage. Save money and protect the environment by an extended battery life and be assured to load properly.

Power	Voltage	Current	WxHxD (mm)	Model	Webcode
300W	12V	20A	218x83x163	EPS/BC 812-20R	102401
300W	24V	10A	218x83x163	EPS/BC 824-10R	102468
300W	48V	5A	218x83x163	EPS/BC 848-05R	102469
600W	24V	20A	218x83x163	EPS/BC 824-20R	102470
600W	48V	10A	218x83x163	EPS/BC 848-10R	102471
600W	12V	40A	90x360x240	EPS/BC 812-40R	102472
900W	12V	60A	90x360x240	EPS/BC 812-60R	102473
1200W	24V	40A	90x360x240	EPS/BC 824-40R	102474
1500W	24V	60A	90x360x240	EPS/BC 824-60R	102475
1500W	48V	40A	90x360x240	EPS/BC 848-40R	102476



EPS/UPS

- DIN-Rail DC-UPS units with 150W to 540W
- Status indication via LEDs
- External alarm outputs
- Remote ON / OFF switchable
- Protection: OVP, OTP, UVP, deep discharge



In case of a power failure it is not only the AC grid that breaks down, but also the DC systems for the supply of machine control systems, alarm devices and control systems. Costly downtime, critical system states, time-consuming reboots and the loss of data can result. The battery-backed, modular DC UPS supplies are an easy way to get these failures under control and provide a reliable and economical system. With the integrated test functions you know at all times, whether protection is still ensured.

EPS/UPS 700

Power	Voltage	Current	WxHxD (mm)	Model	Webcode
150W	10.5-13.5V DC	11A max.	210x105x87	EPS/UPS712-12B	101604
280W	10.5-13.5V DC	21A max.	240x133x87	EPS/UPS712-21B	101605
150W	21-27V DC	5.6A max.	210x105x87	EPS/UPS724-06B	101606
170W	42-54V DC	3.2A max.	210x105x87	EPS/UPS748-03B	101607
200W	21-27V DC	7.5A max.	210x105x87	EPS/UPS724-08B	101608
225W	42-54V DC	4.2A max.	210x105x87	EPS/UPS748-05B	101609
300W	21-27V DC	11A max.	240x133x87	EPS/UPS724-11B	101610
335W	42-54V DC	6.25A max.	240x133x87	EPS/UPS748-07A	101611
485W	21-27V DC	18A max.	250x133x120	EPS/UPS724-18A	101612
540W	42-54V DC	10A max.	250x133x120	EPS/UPS748-10A	101613

EPS/BU

Capacity	Voltage	Back up time	WxHxD (mm)	Model	Webcode
13Ah	12V	240min./3.2A, 50min./8.0A, 25min./16A, 9min./32A	180x133x125	EPS/BU712-13	101616
2.5Ah	24V	240min./0.6A, 50min./1.6A, 25min./3.1A, 9min./6.3A	210x105x87	EPS/BU724-03	101617
6.5Ah	24V	240min./1.6A, 50min./4.5A, 25min./9.0A, 9min./16A	180x133x125	EPS/BU724-07	101619
1.2Ah	48V	240min./0.3A, 50min./0.8A, 25min./1.8A, 9min./3.0A	210x105x87	EPS/BU748-02	101618

- Optional
- Output power up to 1200W
 - Battery unit



Customized Chargers up to 500kW

EPS power supply will find the solution for your application! Made in Germany

Charging systems are used for many different ends. You may only have a common lead-acid battery to load or you might have extensive demands on environmental conditions and reliability. Our consistently modular systems allow to cover almost all areas efficiently. Thus, the following parameters can be adjusted on request:

- Tropical protection
- Protection up to IP55
- Ruggedizing
- Temperature compensation
- Battery monitoring
- Deep discharge protection
- Display of voltage and current with analog or digital display
- Fault monitoring
- Analog or digital programming
- Charging characteristic with timer
- Protection against reverse polarity and sparking
- MTBF

**Our customers use EPS products
for many years in these fields:**

- Industry
- Automotive industry
- Rail / transport
- Energy production (utility, hydropower)
- Data centers (UPS)
- Autonomous power supply (isolated operation)



Charging system for batteries

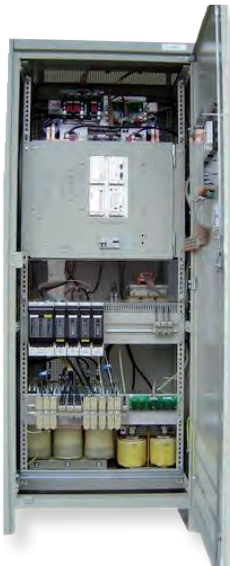


Hydroelectric power station, redundancy n+2

Customized UPS up to 650kVA

With UPS plants, it's all about security and reliability. Many companies have relied on EPS for years – and with good reason! We use only selected and proven components to build a UPS starting with the network monitoring through to the charging technology of the energy storage, the battery stacks and it doesn't end with the solid construction of the power unit and output monitoring. With the built-in test functions the user knows at any time how effective the protection really is. The performance of EPS is topped off by reliable service and your personal point of contact.

- Single-phase UPS systems (up to 200 kVA)
- Three-phase UPS systems (up to 650 kVA)
- System performance up to 1500 kVA (n+1 operation)
- N+1, N+2 redundancy
- High efficiency
- Error monitoring
- CAN/Ethernet interfaces for controlling and monitoring
- Monitoring and diagnostic software
- Automatically and manually controlled bypass system
- Battery monitoring with deep discharge protection
- Parallel operation of up to 8 systems
- Choice of thyristor or transistor technology
- MTBF: approx. 70.000h @ 40 °C



UPS System in a cabinet



LCD display of the most important parameters



Data center



GLOSSARY

Alarm Management

To monitor the output voltage and the output current, an operating range with upper and lower limits can be defined. Errors as well as over temperature can be signaled in various ways, optionally by a beep, by an element in the display or by shut-down of the output.

Autoranging

Units with flexible output stage cover various applications, so you need considerably fewer power supplies compared to using a similar unit with rectangular characteristic. The bandwidth of the output voltage and output current at medium power allows a much more flexible use. Thus, a single autoranging unit also makes good economic sense.

Efficiency

The ratio of output power to input power is generally measured at full load and nominal input conditions. If there are multiple outputs, the efficiency may depend of the distribution of the power to the various outputs.

Function / arbitrary waveform generator

The function generator provides the option that a power supply generates automated sequences according to the function $\Delta U/\Delta t$. The user specifies steps, also called sequence points, by setting voltage, current and time. The resulting sequence is executed by the unit and results in a ramp function between two values over the predetermined time depending on the values chosen. The function and arbitrary waveform generator, which is included in certain series of power supplies and electronic loads, provides an option to supply a standard function (sine, square, etc.) or a special function (DIN40839, photovoltaic, fuel cell, battery simulation) to the DC input resp. DC output „voltage“ or „current“. There are various settings for amplitude, time, frequency, etc.

High speed ramping

Unit internal and permanent modification where the output capacities are reduced to a minimum value in order to increase the dynamics of the output regarding voltage and current. With this optional modification, the rise and fall time of the output voltage minimizes significantly while at the same time the voltage and current ripples are increased, as a negative side effect. This option is available for selected power supply series.

Mains feedback

The regenerative power supply function converts the supplied DC power into a phase synchronous sine power and feeds it into the local or public grid. The usual heat input into the environment can be considerably reduced saving energy costs at the same time.

Power factor

The power factor or active power factor is the ratio of active power P (power consumed in watts) to apparent power S (product of the input voltage V and the input current A). In other words: the power factor is the percentage of the energy consumed compared with the energy supplied. The inductive effect of series coils can be modified by additional capacitors and therefore a higher power factor can be achieved.

Power Factor Correction (PFC)

In most cases, the input current of modern power supplies is not sinusoidal but pulse-shaped generating harmonic currents, which must not exceed the limits of EN 61000-3-2. However, some exceptions are permitted e.g. if the power supply has less than 75W or more than 1000W input power.

Redundancy operation

In redundant systems, every component is installed multiple times. This significantly increases the default, function and operational safety. This principle is applied in systems where power failure cannot be tolerated. In case of malfunction the parallel sub-component takes over. Often a power supply N+1 is provided as redundancy. It may also be useful to keep a redundantly operating unit spatially separated.

Remote Sensing

This is a method to control the output voltage directly at the load, to compensate for the voltage drop in the cables. Separate wires run directly from the load to a controller in the power supply. This „Remote Sensing“ is also called „Sense“.

Sharebus

A share- or CAN-Bus for balancing parallel connections ensures that the load current is evenly distributed to the individual units.

Two-quadrant operation (bipolar)

With the combination of source/sink the quadrants I and II can be shown, i.e. only positive voltages are possible. The positive power is generated by the source (quadrant I) and/or the application and the negative power flows into the load (quadrant II). The threshold value for each application have to be adjusted at the power supply. By selecting the operation mode constant voltage (CV) the voltage is controlled accordingly by means of the sharebus.

User Profiles

Up to four or five profiles (user edited) can be stored and easily loaded. They contain various settings for the operation of the unit, such as voltage / current limiting, overvoltage threshold, etc.

Wide Input Range

Thanks to the wide-range input, power supplies can be operated in most international grids. Typically, this range is between 90V to 264V AC and between 50 and 60Hz. It is no longer necessary to switch the voltage ranges manually.

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