HIGH-CURRENT POWER SUPPLIES

Customized – powerful – compact

CHROME

ANODIZING

STEEL

ELECTROLYSIS
PERFECT CURRENTS FOR YOUR APPLICATIONS

Customised power supplies for electrochemical processes in industry and research

plating electronic is a technological leader for highly specialized and compact DC and Pulse power supplies for universal electrochemical processes, including electroplating, surface treatments for aluminium and steel and electrolytic water treatment. In all these areas we provide customized and innovative solutions for optimized power supplies and processes.

High-Current Power Supply POWER STATION pe5910-W

Electronic pole changer integrated (optional)
Efficiency up to 95%
Digital Control (DSP controlled)
Compact and modular design
Ripple <1%

Example
10.000 A / 20 V / 200 kW
water cooled, IP54

Improved efficiency in comparison to common DC power supplies
ADVANCED AND EFFICIENT SWITCH MODE RECTIFIERS

With their use of high-frequency technology, switch mode rectifiers offers many advantages over conventional rectifiers based on motorised adjustment or SCR technology. Switch mode rectifier technology is reliable, recognised, robust and ideally suited for your processes. The air- or water cooled rectifiers can easily be integrated into a control system.

Output power can be individually increased by parallel-connection.

The primary switched DC rectifiers from plating electronic are ideal for all high-current applications. The powerful and compact rectifiers can be easily expanded by parallel connection – this can just be added at a later stage.

The high efficiency of the DC rectifiers in partial or especially under full load operation offers additional savings in energy cost in comparison to common power supplies.
ADVANCED PULSE POWER SUPPLY TECHNOLOGY

Today's increasingly demanding and complex deposition and coating processes require new power supply technologies for optimised electrochemical processes.

The water cooled Pulse Reverse Power Supplies in switch mode technology with forward and reverse current and voltage regulation offer fast rise and fall times at very high control precision, thus providing the optimal pulse.

With their compact and robust design, the Pulse Reverse Power Supplies from plating electronic are ideal for continuous operation in high-current applications.

The option of specifying complex pulse shapes with fast rise and fall times and other innovative product features complete this highly efficient technology. With parallel connection, the power can be almost increased without limit, enabling a wide range of applications for your process.

POWER PULSE pe86CWD Serie*

(*specification per one cabinet, parallel operation of up to 16 units possible)
Output power: up to 224 kW
Effective- and DC current: up to 3392 A
Pulse current: up to 7680 A
Effective voltage: up to 800 V

With their compact and robust design, the Pulse Reverse Power Supplies from plating electronic are ideal for continuous operation in high-current applications.

The option of specifying complex pulse shapes with fast rise and fall times and other innovative product features complete this highly efficient technology. With parallel connection, the power can be almost increased without limit, enabling a wide range of applications for your process.
RECTIFIERS IN FLOOR MOUNT CABINETS - POWER STATION

Air cooled

pe5610-L
up to 6000 A
up to 600 V
up to 90 kW

pe5410-W
up to 5000 A
up to 1000 V
up to 110 kW

pe5710-W
up to 7200 A
up to 1000 V
up to 132 kW

Water cooled

pe5910-W
up to 10,000 A
up to 1000 V
up to 200 kW
New – with optional integrated, electronic pole changer

Output power can be individually increased by parallel- or serial connection.

CONTROL UNITS

pe280
Programmable control unit

pe280
programmable control unit, flush panel mount control unit

pe8750
programmable control unit, 10” colour touch panel, network-capable, storable processes

pe900 series CONTROL SYSTEMS

Fieldbus interfaces
- CANopen
- CC-Link
- ControlNet
- DeviceNet
- Modbus-RTU
- Profibus-DP
- RS485

Ethernet version
- EtherCAT
- EtherNet/IP
- Modbus-TCP
- Profinet IO
- Profinet IRT

Additional accessory, as for example PC software, chillers, isolation amplifier complete our manufacturing range.
Please contact us for individual data-sheets.
plating electronic GmbH – your electroplating rectifier specialist

For more than 25 years plating electronic GmbH has been one of the leading developers and manufacturers of compact and highly specialised electroplating Power Supplies and PULSE-REVERSE Power Supplies. Our Power Supplies and Control Units are exactly tailored to the specific application profiles and are in use worldwide. Our worldwide service and our on-site customer support are provided by our international Subsidiaries and Partners.

At plating electronic GmbH our main focus is on our customers individual requirements, fast realisation of projects and maximum customer satisfaction in our equipment for their applications. Whether you have a compact standard bench-top unit, plug-in, module cabinet design or even specific individual customer requirement, our Power Supplies can meet your demands for the highest standard in quality and of course, continues to be Made in Germany.

Are you interested in our range of DC or PULSE REVERSE Power Supplies or in our Power Supplies and Controllers for Anodizing and Aluminium colouring processes? Please contact us for detailed brochures about our programmes or visit www.plating.de.