

Flex Kraft

Plating power up to 6000 Amps



New, modular
Flex Kraft range of
switch mode rectifiers
with a compact design
and loaded with
benefits.



The classic switch mode line

– with enhanced performance

Improved availability

Our plating power products are produced to operate continuously at maximum output. They are designed to withstand the conditions of plating shops and are insensitive to interference.

Should a fault occur the products are designed to minimize down-time. The modular design allows you to take out the faulty unit and replace it with a spare one, or remove the module and run the rectifier at reduced power.

Focus on minimizing investment costs

The investment costs are low. First of all, floor space is saved as the compact units are easily placed side-by-side. They are serviced from the front, thus saving space. Installation is simple.

Flex Kraft is designed for use in a normal plating environment.

Savings can be made by not paying for more power than you need. Should you need more power later on, additional modules can be added.

Many features and easy to control

Flex Kraft operates with variable independent settings for current and voltage. The set values can be altered during operation, ramping up to independently set limits.

The rectifiers are controlled manually or from the plant computer.

User-friendly control for running the system. Voltage/current ratio can be changed whenever needed.



Flex Kraft uses power economically

Traditional rectifiers are manufactured for a certain specified combination of secondary parameters, i.e. voltage and current, for example 20V/1500A. If and when the situation changes, perhaps due to another production process, such a rectifier can only be used for equal or lower parameters than originally selected.

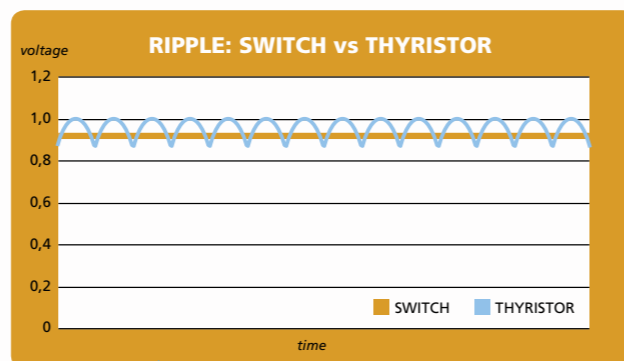
Flex Kraft, on the other hand, is power-controlled which means that the secondary parameters can be changed by re-programming in such a way that full capacity is used. From 20V/1500A to 15V/2500A or 30V/1250A, just to give one example. Please see data sheet for full scope.

Trouble-free plating for good results

To ensure good economy and excellent results Flex Kraft is designed for hard work under tough conditions. It is protected from short circuits, open circuits, over-current, over-voltage and excessive temperatures.

Flex Kraft settings meet individual process requirements. The unit generates low ripple, has an efficiency of approx. 90% and a power factor of over 93% at any load.

Operation and control are easy and standardized throughout the whole range and Flex Kraft is supplied with an informative user's manual.

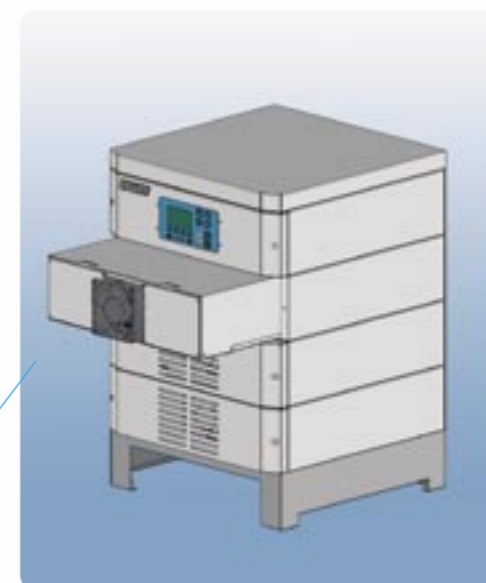


Low ripple as standard means you can run any process without an additional ripple filter and gives excellent plating results.

Down-time kept to a minimum

The quickest way to restore full capacity is by replacing the module in question. One spare module can be used for any combination of secondary parameters.

For further discussions regarding trouble-free operation and preventive maintenance, please contact our After-Sales service department.



High availability is maintained by quickly replacing a faulty module. Side access is not necessary.

Flex Kraft is designed to run trouble-free in a plating environment. Photo courtesy of Galvour AB, Norrköping.



Some brief facts about Flex Kraft

In 1983 Kraftelektronik AB pioneered the unique Switch Kraft series of switch mode DC rectifiers. Over 40000 units have been sold worldwide since then. The new generation of Flex Kraft has a number of features that contribute to savings in investment and good plating economy.

- The high-frequency switch mode technology enables low volume and weight.
- The modular system with 1–10 modules gives 250–6000 Amps at 0–30 Volts.
- Designed for the plating environment and superior to ordinary power supplies.
- Flexible settings for current and voltage.
- Runs both in current control and voltage control modes and operates with independently set limits for current and voltage.
- Designed for 24 h operation at maximum load, at 40 degrees.
- Low consumption of reactive power, and a power factor >0.93 at any load.

Kraftelektronik

– a powerful partner

For 70 years, Kraftelektronik has been one of the leading manufacturers of static converters in demanding industrial applications. Our mission is to offer concepts and products that deliver unique customer value through practical solutions that secure high operational reliability for the end user. We are the preferred supplier of many leading industrial companies.

Kraftelektronik is organized into three business areas:

DC systems division for failure-free power – supplying systems to partners in the engineering industry as well as nuclear power plants, hydroelectric power stations and other companies that need failure-free power. Our customers include ABB, Alstom Power, GE Power Systems, Siemens, Fortum, Sydkraft and Vattenfall.

Power supplies for electrostatic precipitators – developing and manufacturing high-voltage supplies and controls for powering electrostatic precipitators. We work closely with companies such as Alstom Power, Elwo and F.L.Smidth Airtech, to name but a few.

Power supplies for electrochemical processes – supplying rectifiers for electrochemical processes, e.g. metal finishing, anodizing and PCB plating. Our customers are demanding industrial companies, such as Bosch, BMW, SAAB, Volvo, British Aerospace, Motorola and Sanmina.

Kraftelektronik creates customer benefit through offering smart functional solutions and reliable products. Our solutions improve project efficiency for engineering companies and increase process productivity for production companies. This leads to higher efficiency, cost reductions and an overall improvement in the reliability of systems and projects for our clients.

The company headquarters and main facility are located about 15 km north of Göteborg, Sweden. The DC systems division is located in Växjö, in southern Sweden. We also have sales and service offices in Portsmouth UK, Hong Kong and Shanghai. We are active in the international market. The company employs 100 people.



Kraftelektronik AB

Kraftelektronik AB

P.O. Box 2102, SE-445 02 Surte, SWEDEN

Tel +46 31 97 97 00, fax +46 31 97 97 97

www.kraftelektronik.se, info@kraftelektronik.se