



AC-UPS-Systems | Always in Service

UNINTERRUPTIBLE POWER SUPPLIES



J. Schneider
Elektrotechnik

J. SCHNEIDER ELEKTROTECHNIK GMBH – THE COMPANY

J. Schneider Elektrotechnik is a traditional, internationally successful family business that offers its customers sustainable solutions. High-precision handling of currents, voltages and drive technology - this has always characterized J. Schneider Elektrotechnik and makes the company equally successful both regionally and internationally.

In close consultation with our customers, we develop tailor-made solutions for different tasks. This also includes the uninterruptible power supply (UPS) for safety-relevant industrial applications, tested by the technical laboratory "VdS".

In this brochure we would like to give you an insight into our UPS division. We will inform you about the advantages, possible areas of application, customer-specific solutions and our tailor-made service, with which you are always on the safe side.



UNINTERRUPTIBLE POWER SUPPLIES (UPS)

WHEREVER A SAFE, ERROR-FREE AND CONSTANT POWER SUPPLY IS NECESSARY, THE UPS SYSTEMS FROM J. SCHNEIDER ARE EXTREMELY IN DEMAND. AND THIS AROUND THE WORLD.

Whether fluctuations in decentralized power grids, reduction of peak loads, secure supply of critical technologies in industrial plants, data networks and telecommunications or operations of regenerative energies: take over uninterruptible power supplies from J. Schneider demanding tasks.

SINCE 1985, OUR UPS EXPERTS HAVE BEEN AVAILABLE TO CUSTOMERS AS COMPETENT PARTNER, TO FIND RIGHT SOLUTIONS FOR DIFFERENT AREAS OF APPLICATION. AFTER HANDING OVER THE PLANTS, OUR SERVICE TEAM WILL SUPPORT YOU WITH CUSTOMIZED SERVICE SOLUTIONS, THUS ENSURING UNINTERRUPTION-FREE OPERATION.



WHY UPS SYSTEMS

Whether it's a power outage or fluctuations in the power grid - the consequences of an interrupted or poor power supply can be fatal. The consequences are often far-reaching and cause high costs and disrupt operational processes. Damage caused by an unstable power supply can lead to device and system failures or extensive data loss. Issues that can affect any industry and technology. From medical technology to telecommunications to industrial companies - a secure power supply is essential in the digital world.

With our uninterruptible power supply (UPS) you can remedy the situation. We guarantee flawlessly functioning and constant power supply, even when faults occur is maintained. The UPS system ensures a high and constant quality of the supply voltage. All disturbances are eliminated and the output voltage remains constant. In the event of a power failure, the UPS continues to supply power to the consumers without interruption.

The required bridging time in the event of a power failure determines whether a UPS system with ultracapacitors or with batteries is the right choice.

Für diese Entscheidung stehen wir Ihnen als kompetente USV-Experten gerne zur Seite.

THE RIGHT UPS IN AN EMERGENCY

UPS CLASSIFICATION

OFF-LINE (VFI)	LINE-INTERAKTIV (VI)	ONLINE (VFI)
Output Voltage and Frequency Dependent from mains supply	Output Voltage Independent from mains supply	Output Voltage and Frequency Independent from mains supply
Output voltage and frequency dependent — switching times in the event of a power failure: 26 ms — voltage waveform: trapezoidal — Power factor: 0.6	output independent of voltage changes — switching times in the event of a power failure: 26 ms — Voltage waveform: trapezoidal/sine — Power factor: 0.9	Ausgang unabhängig von Spannungs- und Frequenzänderungen — Umschaltzeiten bei Netzausfall: 0 ms — Spannungsform: Sinus — Leistungsfaktor: 0,9 & 1
LOW PROTECTION	SIMPLE PROTECTION	BEST PROTECTION

WHICH UPS SYSTEM IS THE RIGHT ONE?

OffLine, LineInteractive or OnlineUPS?

This question can be answered based on the quality of the power supply and the type of consumption. Smaller servers with offline or line-interactive UPS systems, for example, are used in simple environments in which the power supply does not show any faults.

In an industrial environment, the power grid is subject to a variety of factors. We therefore recommend an on line UPS system for harmonics, voltage peaks or short voltage dips.

ULTRA-CAPACITOR_OR BATTERY BASED UPS STEM?

Depending on the area of application and consumer, different requirements are placed on UPS systems. Starting with the low energy consumption, the design, parallel switching capability, single-phase or three-phase connection - UPS systems from J. Schneider meet all these requirements and are characterized by maximum reliability and robustness. Additional monitoring software guarantees seamless monitoring and offers various protocols for integration into existing control systems.

CAPACITOR BASED UPS SYSTEMS

Compared to batteries, ultracapacitors have a life expectancy of 20 years at 35°C.

The service life of a machine can easily be covered without a single replacement of the ultracapacitors. UPS systems with ultracapacitors are ideal for harsh environmental conditions and with bridging times in the range of seconds. For sensitive manufacturing centers, the installation of UPS systems with ultracapacitors is a worthwhile step, as high costs can be saved in the event of production downtime.

THE ADVANTAGES AT A GLANCE:

- Ultracapacitor lifetime 20 years at 35° C
- maintenance-free ultracapacitors
- more than 1 million loading cycles possible
- no deep discharge
- Significantly lower weight than batteries

TYPICAL AREAS OF APPLICATION:

- Grid stabilization at production facilities
- Improvement of power quality and bridging brief network dips
- Bridging the start-up time of emergency power systems
- Replacement for Flywheel UPS systems

BATTERY BASED UPS SYSTEMS

UPS systems with batteries have significant requirements to high ambient temperatures. The optimum ambient temperature for batteries is 20° C. The maximum service life of the battery can be achieved under these conditions.

VRLA-Batteries are subject to an aging process that is accelerated by excessive ambient temperatures. The nominal operating temperature is 20 to 25° C. If the temperature rises by 10° C above the nominal temperature, the battery life is halved.

THE ADVANTAGES AT A GLANCE:

- Leistungen von 700 VA bis 6400 kVA
- hohes Maß an Zuverlässigkeit und Robustheit
- geeignet für lange Überbrückungszeiten
- externe Batterieanlagen auf Gestellen oder in Batterieschränken
- temperaturgeführte Batterieladung
- automatischer Batterietest
- hohes Maß an Verfügbarkeit
- niedriger Energieverbrauch
- flexible Konfiguration, Produktion und kundenspezifisch anpassbar

TYPICAL AREAS OF APPLICATION:

- data centers
- Telecom and IT
- Banks and insurance companies
- Auxiliary power supply
- Laboratories / Hospitals
- Process control

Battery or capacitor buffered UPS system? We are happy to help!

REQUIREMENTS AND PERFORMANCE

Our UPS systems are characterized by high performance and meet different requirements. Overall, UPS systems can achieve buffer times from one second to several hours over the entire power range from 600 VA to 6400 kVA.

600 VA TO 6400 KVA – THE POWER RANGE OF UPS SYSTEMS

- LineInteractive UPS (VI) from 600 to 3000 VA
- Online UPS systems (VFI) from 700 VA to 6400 kVA
- modular UPS systems (VFI) from 25kVA to 1176 kVA
- regenerative online UPS systems (VFI) from 10 to 200 kVA

EXAMPLE OF A CAPACITOR BASED UPS

MLT 20-007 – Power 20 kVA
Buffer time 7 seconds

EXAMPLE OF BATTERY-BASED UPS

MLT 20-120 – Power 20 kVA
Buffer time 120 minutes

WE HAVE KNOWLEDGE!

INDUSTRY-SPECIFIC SOLUTIONS



UPS systems from J. Schneider meet the requirements of secure power supply for data centers, Power distribution, healthcare, telecom and industrial applications. Furthermore we are happy to deal with new industries, special areas of application or individual wishes.

EXTREME AMBIENT TEMPERATURES FROM 25°C TO 55°C

It doesn't matter whether it's minus degrees or extreme heat - we have the right and reliable solution for you!

DUSTY AREA

Dust in the air or dirt can too lead to massive problems in systems and devices. Our UPS systems are protected against contamination so that your power supply is constant continues.

PHARMACEUTICAL INDUSTRY

In the pharmaceutical industry, in hospitals and in the chemical industry, hygiene plays an important role. We provide you with UPS systems in air-conditioned stainless steel cabinets with the appropriate protection class.

SPECIAL SOLUTIONS

In certain cases, a default UPS system are not used, e.g. B. due to special requirements or limited space. We offer you individual concepts that also meet your requirements.

Take the opportunity and let our UPS experts advise you.

ALWAYS THERE!

Satisfied customers and a secure power supply - that's what we are committed to! Benefit from our service package so that you are on the safe side in the future.

SERVICE

TECHNICAL SUPPORT

Our UPS experts will support you with the following topics:

- Dimensioning the UPS system
- Provision of technical documentation
- Advice on batteries or ultracapacitors
- Configuration of the system and accessories

AFTER SALES

SERVICE-TEAM

The service team consists of highly qualified technicians who are available to you competently and reliably in after-sales service

AFTER-SALES:

- Direct contact to service technicians
- Short reaction times
- Provision of spare parts for short-term repairs
- advice on installation
- Commissioning and training

ACCESSORIES

- External bypasses
- transfer systems (ATS,MTS)
- parallel interface cards
- network cards
- relay cards
- temperature sensors
- shutdown and monitoring software

TAYLOR MADE SERVICE-CONTRACTS

Regular maintenance measures prevent serious problems and can thereby avoid costs incurred.

With our service contracts be on the safe side. You can reduce the risk of downtime and be assured of a constant power supply.

OUR TALER MADE SERVICE:

- preventive service according to workshop specifications
- Battery tests
- Reporting
- Recommendations
- needs-based and quick repair service
- remote monitoring the UPS system



J. SCHNEIDER ELEKTROTECHNIK GMBH

HELMHOLTZSTRASSE 13
77652 OFFENBURG / GERMANY
+49-781-206-0
INFO@J-SCHNEIDER.DE
WWW.J-SCHNEIDER.DE



J. Schneider
Elektrotechnik