WÖHRLE
POWER SYSTEMS

Switch-Mode Power Supplies
DC UPS Solutions
AC UPS Solutions
Transformers
Switchgear Construction

woehrle-powersystems.com

Uwe Wöhrle (on the right) and Luca Wöhrle (on the left), Managing Directors of Wöhrle Power Systems GmbH

Your Partner for Reliable and Compact Power Supply Solutions

The Wöhrle Power Systems GmbH, which emerged in 2026 from Wöhrle Stromversorgungssysteme GmbH and is part of the Wöhrle Group, stands for modern, reliable and future-oriented power supply solutions.

Our broad product portfolio includes switch-mode power supplies, DC power supplies, innovative energy storage technologies, AC UPS systems, line reactors and transformers, covering a diverse range of professional applications.

With our many years of experience, sound technical know-how and a clear focus on quality, we develop both tried-and-tested standard systems as well as individual, customer-specific solutions. We place particular emphasis on properties that are crucial in modern electronic applications: efficiency, compactness and reliability.

The continuous further development of our products, processes and expertise is an integral part of our corporate philosophy. This ensures that our solutions not only meet today's requirements, but are also designed to be future-proof.

As a reliable partner, we offer our customers high-quality products and competent support in selecting the right solution. Discover our full range now in our webshop.

WEBSHOP

„The ideal solution for you: reliable, safe, efficient. We give our best every day to provide you with perfection."

Your Partner for Reliable Power Supply Solutions

Tailor-made solutions for specific requirements

Wöhrle Power Systems GmbH offers a wide-ranging portfolio of switch-mode power supplies, DC power supplies, innovative energy storage technologies, AC UPS systems, line reactors and transformers.

We thus cover an extensive spectrum of professional applications, ranging from tried-and-tested standard solutions to customized special solutions for specific requirements.

As a reliable partner, we stand by our customers at all times with expert advice, whether on technical details, project-specific adaptations, or the joint development of tailor-made solutions.

We look forward to supporting you in the selection and development of your optimum solution.

Support

UPS Systems
1- and 3-phase

Custom UPS Solutions

Switch-Mode Power Supplies
12, 24 & 48 V
DC UPS Systems

Transformers

EPNSV Series

Single-phase, distribution board installation, 15 to 150 W

Distribution board installation
The single-phase EPNSV power supply units for distribution board installation in 45 mm panel cut-outs have a closed, robust plastic housing with touch-protected screw connections. The switch-mode power supplies are mounted directly on DIN rails.

Multiple use cases
The switch-mode power supplies of the EPNSV series have a wide-range input from 85 to 254 V AC and 120 to 370 V DC, enabling universal use. Along with the supply of 24 V loads, with this family of power supply units it is also possible to implement special output voltages on request. Due to the flexibility of the input and output voltage, the power supply units can be used in numerous different applications.

Compact design
The modern circuit design makes it possible to house the components in slim housings. With a width from 17.5 mm, enough space is left in the switch cabinet for the wiring as well as for control units and monitoring modules.

PRODUCT HIGHLIGHTS

Distribution board installation

Power range from
0.63 to 11.3 A / 15 to 150 W

Output voltage
5, 12, 24 and 48 V DC

High efficiency of up to 90.5%

Info and webshop

	EPNSV Series				
	EPNSV24006	EPNSV2401	EPNSV24025	EPNSV2404	EPNSV2406
Input					
Input voltage range AC	90–264 V				
Input voltage range DC	127–370 V				
Input current @ 115 V AC	0.5 A	0.88 A	1.2 A	3 A	
Input current @ 230 V AC	0.25 A	0.48 A	0.8 A	1.6 A	
Output					
Rated output voltage DC	24 V				
Adjustment range of the output voltage DC	21.6–29 V				
Rated output current	0.63 A	1.5 A	2.5 A	4.17 A	6.25 A
General Data					
Temperature range	-20 to +70 °C	-30 to +70 °C			-10 to +70 °C
Efficiency	86%	89%	90%		90.5%
Dimensions W H D	 18 90 58 mm	 35 90 58 mm	 52 90 58 mm	 70 90 58 mm	 150 90 58 mm
Weight	0.078 kg	0.12 kg	0.19 kg	0.27 kg	0.3 kg

	EPNSV Series					
	EPNSV0502	EPNSV1201	EPNSV1202	EPNSV1204	EPNSV1210	EPNSV48027
Input						
Input voltage range AC	85–264 V					
Input voltage range DC	120–370 V					
Input current @ 115 V AC	0.5 A	0.88 A		1.2 A	3 A	35 A
Input current @ 230 V AC	0.25 A	0.48 A		0.8 A	1.6 A	70 A
Output						
Rated output voltage DC	5 V	12 V				48 V
Adjustment range of the output voltage DC	4.5–5.5 V	10.8–13.8 V				43.2–55.2 V
Rated output current	2.4 A	1.5 A	2 A	4.5 A	11.3 A	@ 115 V AC: 2.7 A @ 230 V AC: 3.2 A
General Data						
Temperature range	-30 to +70 °C					
Efficiency	80%	89%	88%		89%	90.5%
Dimensions W H D	 17.5 90 54.5 mm	 35 90 58.4 mm		 52.5 90 58.4 mm	 105 90 54.5 mm	 105 90 54.4 mm
Weight	0.078 kg	0.078 kg	0.12 kg	0.19 kg	0.31 kg	

EV Series

Single-phase, distribution board installation, 30 to 100 W, high-end

Distribution board installation
The EV series with optimal price-performance ratio from Wöhrle offers a broad selection of compact switch-mode power supplies for distribution board installation in 45 mm panel cut-outs. The units can be mounted directly on DIN rails.

Compact housing
The only 91 mm high and between 53 and 89.9 mm wide design requires only little space in the switch cabinet. The units have a robust, sealed plastic housing with screw connections protected against touching. Therefore, they do not require an earth connection and have a low leakage current.

Universal application
The modern circuit design of the EV series meets the highest standards. Due to the broad input voltage range, both AC and DC, the switch-mode power supplies can be used universally for numerous applications. Furthermore, the units were developed for a broad range of operating temperatures between -25 °C and +70 °C. The units feature low residual ripple and also buffering of the DC output during power failures in the millisecond range.

PRODUCT HIGHLIGHTS

Distribution board installation

Power range from
1.25 to 3.8 A / 30 to 100 W

Output voltage 24 V DC

High efficiency of up to 89%

Info and webshop

	EV Series		
	EV2401	EV24025	EV2404
Input			
Input voltage range AC	90–264 V		
Input voltage range DC	125–375 V		
Input current @ 115 V AC	< 0.8 A	< 1.5 A	< 2.2 A
Input current @ 230 V AC	< 0.6 A	< 1 A	
Output			
Rated output voltage DC	24 V		
Adjustment range of output voltage DC	23.5–24.5 V	24–28 V	22–24 V
Rated output current	0–1.25 A (max. 30 W)	0–2.5 A (max. 60 W)	0–3.8 A (max. 100 W)
General Data			
Temperature range	-25 to +70 °C		
Derating	from 55 °C -2.5% / K		
Overtemperature protection	yes		
Efficiency (typ.)	87%	88%	89%
Dimensions W H D	 53 91 55.6 mm	 71 91 55.6 mm	 89.9 91 55.6 mm
Weight	0.14 kg	0.22 kg	0.35 kg

E Series

Single-phase, switch cabinet installation, 75 to 480 W

Affordable with basic functionality

The units of the E series offer the latest power supply technology focused on basic functionality. The high-quality switch-mode power supplies offer a low-cost means of supplying sensitive loads without the need to make compromises. A stabilized 24 V output voltage is provided in the power range from 75 to 480 W. The series features high efficiencies of up to 93% and can be used in a very wide range of application areas thanks to a broad temperature range between -30 and +70 °C.

Space saving due to ultra-slim design

The single-phase power supply units of the E series feature a very slim design between 27 and 56 mm depending on the device. The assemblies are integrated into a high-quality steel plate housing (E2403 in plastic housing) in a space-saving manner for DIN rail mounting. Compared to the previous slimmest series from Wöhrle, the EPNSB series, this successor series offers a significant space saving of 25%.

PRODUCT HIGHLIGHTS

- Ultra-slim design
- Latest power supply technology with basic functionality
- Power range from 3.125 to 20 A / 75 to 480 W
- Output voltage 24 V DC
- High efficiency of up to 93%

Info and webshop

	E Series			
	E2403	E2405	E2410	E2420
Input				
Input voltage range AC	90–264 V			
Input current @ 115 V AC	1.4 A	2.1 A	2.5 A	4.6 A
Input current @ 230 V AC	0.9 A	1.3 A		2.3 A
Output				
Rated output voltage DC	24 V			
Adjustment range of output voltage DC	21.6–26 V			24–28 V
Rated output current	3.1 A	5 A	10 A	20 A
General Data				
Temperature range	-20 to +70 °C			
Derating	from 50 °C -2.5% / K			
Overtemperature protection	yes			
Efficiency (typ.)	89%		90%	93%
Dimensions W H D	 27 123.6 102 mm	 30 123.6 117.2 mm	 40 123.6 117.2 mm	 56 123.6 116.8 mm
Weight	0.22 kg	0.45 kg	0.62 kg	0.87 kg

EF Series

Single-phase, latest generation, 120 to 480 W spring-cage terminal technology

Robust and reliable

The EF series from Wöhrle was designed especially for industrial use. The conformal coated circuit boards protect the PCBAs against dust and damaging substances, which increases the service life and reliability of the units.

With a rated power from 120 to 480 W, the EF series is suitable for various industrial applications. All units operate in the constant current mode with effective overcurrent protection, ideal for DC UPS systems and charging applications.

Modern design and straightforward installation

Due to the spring-cage terminals, the connecting cables can be changed quickly and easily without tools. The EF series has a modern circuit board layout with durable SMD technology. The units have a compact slim-line design and high-quality spring terminals for straightforward, reliable installation. In addition to the broad range of the adjustable DC output voltage from 24 to 28 V, a DC OK LED indicator with additional relay contact rounds off the extras.

PRODUCT HIGHLIGHTS

High-end technology

Output voltage 24 V DC

Spring-cage terminals

Slim-line design

Info and webshop

	EF Series					
	EF1210	EF1220	EF2405	EF2410	EF2420	EF4810
Input						
Input voltage range AC	90–264 V					
Input voltage range DC	127–375 V					
Input current @ 115 V AC	0.6 A	2.5 A	1.2 A	2.5 A	4.7 A	4.7 A
Input current @ 230 V AC	0.6 A	1.3 A	0.6 A	1.3 A	2.4 A	2.4 A
Output						
Rated output voltage DC	12 V	12 V	24 V			48 V
Adjustment range of output voltage DC	12–14 V	12–14 V	24–28 V			48–55 V
Rated output current	10 A	20 A	5 A	10 A	20 A	10 A
General Data						
Temperature range	-30 to +70 °C		-30 to +70 °C			
Derating	from 60 °C -2.5% / K		from 60 °C -2.5% / K			
Overtemperature protection	yes		yes			
Efficiency (typ.)	93%	93.5%	93.5%	94.5%	95%	95%
Dimensions W H D	 30 123.6 116.8 mm	 40 123.6 116.8 mm	 30 123.6 116.8 mm	 40 123.6 116.8 mm	 56 123.6 116.8 mm	 56 123.6 116.8 mm
Weight	0.5 kg	0.64 kg	0.5 kg	0.64 kg	0.88 kg	0.88 kg

EP Series

Single-phase, DIN rail mounting, 30 to 480 W, high-end

Modern and durable

The EP series from Wöhrle offers numerous compact, durable switch-mode power supplies for DIN rail applications. Due to their modern circuit design, they meet the highest standards.

For instance, the units were developed for a broad range of operating temperatures from -25 °C to +70 °C. The EP series also impresses with a consistently slim design and high power density. All units of the series have UL approval and are excellently suited to all industrial applications in the area of automation, (custom) machinery and switch cabinet construction.

Premium switch-mode power supply units

Due to the latest, powerful switch-mode power supply technology, the units can be categorized as high-end. For instance, they have high-quality connection terminals.

With their broad range of AC and DC input voltages, the switch-mode power supplies can be used for numerous applications. The models from a rated power of 120 W include comprehensive extras such as a powerful long-lasting power boost as well as a relay contact.

PRODUCT HIGHLIGHTS

- Broad AC and DC input voltage range
- Units from 120 W
- Powerful, long-lasting Power Boost
- High-quality terminals
- UL approval
- Slim-line design

Info and webshop

	EP Series						
	EP2401	EP2402	EP2404	EP2405	EP2410	EP2420	EP4820
Input							
Input voltage range AC	85–264 V			88–264 V			180–264 V
Input voltage range DC	120–375 V			100–375 V			254–370 V
Input current @ 115 V AC	< 0.8 A	< 0.95 A	< 1.2 A	< 1.18 A	< 2.6 A	< 5 A	< 5 A
Input current @ 230 V AC	< 0.4 A	< 0.55 A	< 0.6 A	< 0.61 A	< 1.3 A	< 2.5 A	< 2.5 A
Output							
Rated output voltage DC	24 V						
Adjustment range of output voltage DC	21.6–26.4 V	24–28 V					48 V
Rated output current	1.25 A / 30 W	2.1 A / 50 W	4 A / 96 W	5 A / 120 W	10 A / 240 W	20 A / 480 W	20 A / 960 W
Power Boost	–	–	–	150% / 5 sec.			130% / 5 sec.
DC OK/relay contact	–	yes					
General Data							
Temperature range	-20 to +70 °C			-25 to +70 °C			-30 to +70 °C
Derating	from 55 °C -3.3% / K			from 60 °C -2.5% / K			
Overtemperature protection	yes						
Efficiency (typ.)	88%	89%		91%	94%		93%
Dimensions W H D	21 75 89.5 mm	30 75 89.5 mm	45 75 100 mm	40 124 117 mm	60 124 117 mm	82 124 127 mm	110 124 150 mm
Weight	0.1 kg	0.18 kg	0.33 kg	0.58 kg	0.84 kg	1.2 kg	2.47 kg

Z/ZPNW Series

Two-phase, 60 to 480 W, input voltage range for worldwide use

Universal and powerful

The two-phase power supply units of the Z and ZPNW series from Wöhrle were designed for single- and two-phase connection and can be used worldwide without problems due to their very wide input voltage range from 180 to 550 V AC.

In addition, the Z series power supply units can provide up to 120% of the rated load for 3 seconds and are specified for operation with an earthed negative (PELV). As such even demanding applications can be supplied reliably.

Compact and resilient

The compact DIN rail units are mounted in corrosion-resistant aluminum housings.

The electronics of the Z series are designed for harsh ambient conditions with printed circuit boards with conformal coatings. As such the units withstand higher levels of pollution without problems (pollution degree 2).

The temperature range of the Z and ZPNW series also meets higher standards. The units can be operated from -30 to +70 °C. Should, nevertheless, these or other limits be exceeded, the units offer comprehensive protective functions for overtemperature, overload and overvoltage.

PRODUCT HIGHLIGHTS

Large input voltage range 180 to 550 V AC

Worldwide use

Power range from 2.5 to 20 A / 60 to 480 W

Output voltage 24 V DC

High efficiency of up to 92%

Suitable for SELV and PELV applications

Info and webshop Z Series

Info and webshop ZPNW Series

	Z Series			ZPNW Series			
	Z24025	Z2405	Z2410	ZPNW 24025	ZPNW 2405	ZPNW 2420	ZPNW 4810
Input							
Input voltage range AC	180–575 V						
Input voltage range DC	254–780 V						
Input current @ 230 V AC	0.7 A	< 1.2 A	< 2 A	0.7 A	1.2 A	4 A	4 A
Input current @ 400 V AC	0.4 A	< 0.8 A	< 1 A	0.4 A	0.7 A	1.6 A	1.6 A
Output							
Rated output voltage DC	24 V						
Adjustment range of output voltage DC	24–29 V	24–28 V		24–29 V		24–28 V	48–55 V
Rated output current	2.5 A	5 A	10 A	2.5 A	5 A	20 A	10 A
Overload	Constant current limiting	Power Poost 120% for 3 sec.		Constant current limiting			
General Data							
Temperature range	-30 to +85 °C	-30 to +70 °C					
Derating	from 60 °C -5% / K	from 60 °C -4% / K	from 60 °C -2.25% / K	from 60 °C -5% / K	from 60 °C -4% / K	from 50 °C -2% / K	from 50 °C -2% / K
Overtemperature protection	yes						
Efficiency (typ.)	89%	> 90%		89%	91%	92%	93%
Dimensions W H D	 32 125.2 102 mm	 40 124 117 mm	 60 124 117 mm	 32 125.2 102 mm	 40 125.2 113.5 mm	 85.5 125.2 128.5 mm	 85.5 129 125 mm
Weight	0.45 kg	0.62 kg	0.81 kg	0.45 kg	0.65 kg	1.7 kg	1.7 kg

DF Series

Three-phase, latest generation, 120 to 480 W, spring-cage terminal technology

Robust and reliable

The DF series from Wöhrle provides an innovative solution for industrial use. The circuit boards in the DF series are conformal coated to meet the requirements of the harshest industrial environments. These coatings protect the circuit boards effectively against dust and damaging substances.

In addition, all units in this series have outstanding EMC characteristics that meet class B standards for emissions and interference immunity in industry.

Versatile and adaptable

Thanks to the latest spring terminal technology, the connecting cables can be changed quickly and straightforwardly without additional tools.

The DF series is versatile in use and suitable, in particular, for applications in DC UPS systems or charging applications. With a rated power from 120 to 480 W, the series covers a broad spectrum of power requirements. The power supply units operate in constant current mode and have integrated overcurrent protection, which makes them a flexible, adaptable solution for industrial power supply needs.

PRODUCT HIGHLIGHTS

- High-end technology
- Output voltage 24 V DC
- Spring-cage terminals
- Slim-line design

Info and webshop DF Series

Info and webshop D2440

	DF Series			D Series
	DF2405	DF2410	DF2420	D2440
Input				
Input voltage range AC		3 × 320–575 V 2 × 340–575 V		320–575 V
Input voltage range DC		450–800 V		
Input current @ 400 V AC	<0.5 A	<0.75 A	<0.85 A	<1.65 A
Input current @ 500 V AC	<0.4 A	<0.65 A	<0.73 A	<1.35 A
Output				
Rated output voltage DC		24 V		
Adjustment range of output voltage DC		24–28 V		
Rated output current	5 A	10 A	20 A	40 A
General Data				
Temperature range		3-phase: -25 to +70 °C 2-phase: -25 to +60 °C		-25 to +55°C
Derating		from 55 °C -3.33% / K		
Overtemperature protection		yes		
Efficiency (typ.)	87.5% @ 3 × 400 V AC & 3 × 500 V AC	89.5% typ. @ 3 × 400 V AC & 3 × 500 V AC	94% typ. @ 3 × 400 V AC & 3 × 500 V AC	95%
Dimensions W H D	 38 124 125.3 mm	 50 124 125.3 mm	 65 124 127.3 mm	 110 124 128.7 mm
Weight	0.54 kg	0.84 kg	1.2 kg	2.26 kg

DP Series

Three-phase, 240 to 960 W, high-end

Reliable and efficient

The high-end three-phase switch-mode power supplies of the DP series from Wöhrle were developed to the highest standards to ensure reliability and efficiency in the application. Particular value was placed on durability and a high level of protection against failure to save servicing costs. The high efficiency of up to 95.75% also reduces the power consumption and at the same time optimizes the efficiency of the systems. The units are therefore very cost-effective in the face of constantly increasing energy costs.

High-quality additional functions

The units of the DP series are designed for continuous operation and can be used universally for all industrial applications. Due to their very compact design, they also save space in the switch cabinet. Along with the high-current capacity of these switch-mode power supplies with the long-lasting power boost, the size of the connection terminals has also been increased correspondingly. All units of this product series are also equipped with a DIN rail clip, while some even offer additional features such as a remote contact and a relay contact.

PRODUCT HIGHLIGHTS

Power range from
10 to 40 A / 240 to 960 W

Output voltage
24 V DC (adjustable)

High efficiency up to 95.75%

Modern circuit design

High-quality connection terminals

Slim-line design

Info and webshop

	DP Series		
	DP2410	DP2420	DP2440
Input			
Input voltage range AC	320–600 V	320–575 V	
Input voltage range DC	450–800 V		
Input current @ 400 V AC	< 0.75 A	< 0.79 A	< 1.65 A
Input current @ 500 V AC	< 0.65 A	< 0.68	< 1.35 A
Output			
Rated output voltage DC	24 V		
Adjustment range of output voltage DC	24–28 V		
Rated output current	10 A	20 A	40 A
General Data			
Temperature range	-25 to +80 °C	-25 to +70 °C	
Derating	from 50 °C -2.5% / K	from 60 °C -2.5% / K	
Overtemperature protection	yes		
Power Boost	150% / 3 sec.	150% / 7 sec.	
Efficiency (typ.)	91%	95.23%	95.75%
Dimensions W H D	 70 121 117.3 mm	 65 124 127.1 mm	 110 124 128.6 mm
Weight	0.89 kg	1.18 kg	2.3 kg

POWER-TEC Series

Three-phase, 240 to 960 W, High-end, push-in technology

Maximum power for the industry

The Wöhrle POWER-TEC switch-mode power supplies were developed for industrial applications and offer maximum efficiency of up to 96.9%. The units are designed for surge voltage immunity of up to 6 kV peak at the AC input and feature reverse polarity protection at the DC output of up to 35 V DC. An integrated power boost circuit enables 150% rated power for 5 seconds, ideal for applications with DC motors. Thanks to the tool-free push-in terminals at a 25° angle, installation is quick and easy, even in confined spaces.

Three-phase switch-mode power supplies for switch cabinet installation

The POWER-TEC power supply units support a wide input voltage range of 3 × 320-575 V AC or 450-815 V DC, which makes them very versatile. They offer cold-start capability down to -40 °C and have an active inrush current limitation to maximize operational safety. The DC OK and LED indicators ensure easy status monitoring and the slim design allows space-saving installation without additional spacing. The devices are also equipped with a relay contact.

With a service life of 80,000 hours and robust protection against voltage peaks, they are perfect for industrial automation, renewable energies and demanding measurement and testing technology.

PRODUCT HIGHLIGHTS

Power Boost 150% for 5 sec.

Push-in terminals,
tool-free connection

Expected service life
80,000 h / 40 °C

Cold start -40 °C

Slim-line design

Info and webshop

	POWER-TEC Series				
	POWER-TEC 2410	POWER-TEC 2420	POWER-TEC 2440	POWER-TEC 4810	POWER-TEC 4820
Input					
Input voltage range AC	320–575 V				
DC input voltage	430–815 V				
Output					
Rated output voltage DC	24 V			48 V	
Adjustment range of output voltage DC	24–28 V			48–56 V	
Rated output current	10 A	20 A	40 A	10 A	20 A
General Data					
Power level meter	–	yes			–
Connection technology	Combination terminal with push-in and screw connection on all devices in this series				
Temperature range	-40 to +60 °C				
Derating	> 60 °C Power derating by 2.5%				
Overvoltage protection	yes				
Power Boost	150% / 5 sec.				
Efficiency	94.1%	95.3%	96.9%	95.3%	96.9%
Dimensions W H D	 43 135 140 mm	 52 135 155.7 mm	 80 135 155.7 mm	 52 135 155.7 mm	 80 135 155.7 mm
Weight	0.5 kg	0.8 kg	1.6 kg	0.8 kg	1.6 kg

WRS Series

Panel Mount, 35 to 75 W

Power supply units for industrial applications

The panel-mount switch-mode power supplies of the WRS series were specifically developed for industrial applications where reliability, efficiency, and compact integration are key priorities. Thanks to their low mounting height, the devices can be easily integrated into flat enclosures or directly onto mounting plates.

The wide-range input enables worldwide deployment without switching and ensures maximum flexibility across different power grids. At the same time, the high voltage stability with low residual ripple ensures reliable power supply even for sensitive electronic components.

The high efficiency reduces heat generation, which not only extends device lifespan but also enables economical and efficient use in control cabinets. With various power ratings and selectable 12 V or 24 V DC output voltages, the WRS series offers a tailored solution for the most diverse industrial requirements.

PRODUCT HIGHLIGHTS

Power range from 35 to 75 W

Wide-range input from 90 to 264 V AC

12 V or 24 V DC output voltage

High voltage stability, low ripple

Compact design for flat housings

Info and webshop

	WRS Series					
	WRS-35-12	WRS-35-24	WRS-50-12	WRS-50-24	WRS-75-12	WRS-75-24
Input						
Input voltage range AC	90–264 V					
Output						
DC nominal output voltage	12 V	24 V	12 V	24 V	12 V	24 V
Adjustment range of output voltage DC	10.6–13.8 V	21.6–28.8 V	11.0–13.8 V	21.6–28.8 V	11–13.8 V	21.6–28.8 V
Rated power	36 W		50.4 W	52.8 W	72 W	76.8 W
General Data						
Efficiency	85%	88%	83.5 %	86.5%	87%	
Dimensions W H D	99 82 30 mm				99 97 30 mm	

ESP Series

Panel Mount, 100 to 500 W

Ideal also for demanding applications

The ESP series provides reliable power supply for high-power applications with limited installation space. Thanks to their flat design, the units can be flexibly integrated into housings or machine frames.

The wide-range input enables worldwide use, while precise regulation and low ripple ensure a stable supply for sensitive components. The high efficiency reduces power loss and heat generation. The robust design up to +70 °C and power variants from 100 to 500 W with 12 or 24 V DC offer maximum flexibility for industrial applications.

PRODUCT HIGHLIGHTS

Power range 100 to 500 W

Wide-range input from 90 to 305 V AC

12 or 24 V DC

High efficiency

Temperature range up to +70 °C

Webshop

	ESP Series							
	ESP-100-12	ESP-100-24	ESP-150-12	ESP-150-24	ESP-200-12	ESP-200-24	ESP-320-24	ESP-500-24
Input								
Input voltage range AC	90–305 V							
Output								
Rated output voltage DC	12 V	24 V	12 V	24 V	12 V	24 V	24 V	24 V
Adjustment range of output voltage DC	11.4–13.2 V	22.8–26.4 V	11.4–13.2 V	22.8–26.4 V	10.0–13.2 V	20.0–26.4 V		
Rated power	102 W	100.8 W	150 W	151.2 W	200.4 W	201.6 W	321.6 W	504 W
General Data								
Efficiency	86%	87%	86%	88%		88.5%	89%	
Dimensions W H D	179 99 30 mm				215 115 30 mm			230 127 40.5 mm

EPM Series

Panel Mount, 200 to 1,000 W

Specifically for industrial applications

The EPM series switch-mode power supply units have been developed for industrial applications where reliability, precision and a compact design are paramount. The flat design in combination with a robust aluminum housing enables efficient heat dissipation and long-lasting integration into machines and systems.

The wide-range input ensures worldwide usability. The active PFC monitoring ensures a stable power supply with high load stability and low residual ripple. Thanks to their high efficiency and extended temperature range up to +70 °C, the devices can be used reliably even under demanding conditions. With power levels from 200 to 1,000 W and 12 or 24 V DC, including fine-adjustable output voltage, the EPM series offers maximum flexibility.

PRODUCT HIGHLIGHTS

Power range 200 to 1,000 W

Wide-range input from 90 to 305 V AC

Active PFC monitoring

12 V or 24 V DC, fine-adjustable

Temperature range up to +70 °C

Aluminum housing for optimized heat dissipation

Webshop

	EPM Series / Panel-Mount Switch-Mode Power Supplies with Active PFC Monitoring				
	EPM-200-24	EPM-350-24	EPM-500-24	EPM-750-24	EPM-1000-24
Input					
Input voltage range AC	90–305 V				
Output					
Rated output voltage DC	24 V				
Adjustment range of output voltage DC	22.8–25.2 V				
Rated power	201.6 W	350.4 W	501.6 W	751.2 W	1008 W
General Data					
Efficiency	91%	90%	93%	94%	
Dimensions W H D	 195 54.8 26 mm	 222 61 21 mm	 233 81 31 mm	 237.5 100 41 mm	 241 115 41.5 mm

WPR Series

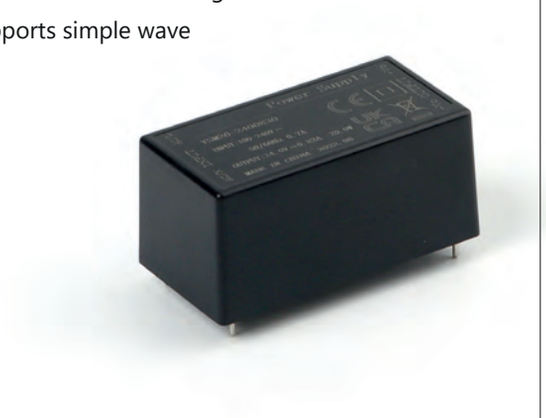
PCB-mount power supplies, 5 to 90 W

PCB-mount power supplies

The ultra-compact PCB-mount power supplies of the WPR series are the ideal solution for space-constrained applications where reliability and power density are paramount. Modern circuit technology enables high efficiency alongside an attractive price-performance ratio.

The wide-range input enables worldwide deployment, while power ratings from 5 to 90 W allow for needs-based design. Available with 12 or 24 V DC, the units can be flexibly integrated into different designs.

The compact pin assignment supports simple wave soldering directly on the PCB.



PRODUCT HIGHLIGHTS

Power range 5 to 90 W

Wide-range input from 90 to 264 V AC

12 or 24 V DC

High power density

Compact pin assignment for PCB mounting

Industrial quality for a long service life

Webshop

WPR Series	Input	Output			General Data	
Miniature PCB-mount power supplies for soldering into circuit boards	Input voltage range AC	Rated output voltage DC	Adjustment range of the output voltage DC	Rated power	Mounting	Dimensions L x W x H
WPR-05-12	90–264 V AC	12 V DC	5.04 W	75%	Soldering assembly	46.08 x 25.78 x 21.7 mm
WPR-05-24		24 V DC	5.52 W	77%	Soldering assembly	46.08 x 25.78 x 21.7 mm
WPR-10-12		12 V DC	10.2 W	82%	Soldering assembly	46.08 x 25.78 x 21.7 mm
WPR-10-24		24 V DC	10.08 W	83%	Soldering assembly	46.08 x 25.78 x 21.7 mm
WPR-15-12		12 V DC	15.0 W	82%	Soldering assembly	52.50 x 27.2 x 24.0 mm
WPR-15-24		24 V DC	15.12 W	83%	Soldering assembly	52.50 x 27.2 x 24.0 mm
WPR-20-12		12 V DC	21.6 W	84%	Soldering assembly	52.50 x 27.2 x 24.0 mm
WPR-20-24		24 V DC	21.6 W	85%	Soldering assembly	52.50 x 27.2 x 24.0 mm
WPR-30-12		12 V DC	30.0 W	88%	Soldering assembly	69.50 x 39.0 x 24.0 mm
WPR-30-24		24 V DC	30.0 W	88%	Soldering assembly	69.5 x 39.0 x 24.0 mm
WPR-45-12		12 V DC	45.6 W	87.5%	Soldering assembly	87.0 x 52.0 x 30.0 mm
WPR-45-24		24 V DC	45.6 W	89.5%	Soldering assembly	87.0 x 52.0 x 30.0 mm
WPR-60-12		12 V DC	60 W	89.5%	Soldering assembly	87.0 x 52.0 x 30.0 mm
WPR-60-24		24 V DC	60 W	89.5%	Soldering assembly	87.0 x 52.0 x 30.0 mm
WPR-90-12	85–305 V AC	12 V DC	80.4 W	89.5%	Soldering assembly	87.0 x 52.0 x 30.0 mm
WPR-90-24		24 V DC	90.0 W	91.0%	Soldering assembly	87.0 x 52.0 x 33.0 mm

WPR-ST Series

PCB-mount power supplies, 30 to 90 W

PCB-mount power supplies with screw terminals

Our ultra-compact PCB-mount power supplies deliver reliable performance even in highly space-constrained environments. State-of-the-art technology and high-quality workmanship guarantee a stable supply and an excellent price-performance ratio for professional applications.

The wide-range input enables worldwide deployment across different power grids. With 12 or 24 V DC output and power variants of 30, 60, or 90 W, these units offer flexible adaptation options.

Robust screw terminal connections enable quick and secure installation, while high-quality components minimize heat generation and maximize service life.

PRODUCT HIGHLIGHTS

Power variants 30, 60 or 90 W

Wide-range input from 90 to 264 V AC

12 or 24 V DC

Compact design

Screw terminals

Industrial quality with a long service life

Webshop

WPR-ST Series	Input	Output			General Data	
Miniature PCB switch-mode power supplies with screw terminals	Input voltage range AC	Rated output voltage DC	Adjustment range of the output voltage DC	Rated power	Mounting	Dimensions L x W x H
WPR-30-12-ST	90–264 V AC	12 V DC	30 W	88%	Screw terminals	91.0 x 39.5 x 28.5 mm
WPR-30-24-ST		24 V DC	30 W	88%	Screw terminals	91.0 x 39.5 x 28.5 mm
WPR-45-12-ST		12 V DC	45.6 W	87.5%	Screw terminals	87.0 x 52.0 x 30.0 mm
WPR-45-24-ST		24 V DC	45.6 W	89.5%	Screw terminals	87.0 x 52.0 x 30.0 mm
WPR-60-12-ST		12 V DC	60.0 W	87.5%	Screw terminals	109.0 x 52.0 x 33.5 mm
WPR-60-24-ST		24 V DC	60.0 W	90%	Screw terminals	109.0 x 52.0 x 33.5 mm
WPR-90-12-ST	85–305 V AC	12 V DC	80.4 W	89.5%	Screw terminals	109.3 x 52.7 x 33.9 mm
WPR-90-24-ST		24 V DC	90.0 W	91%	Screw terminals	109.3 x 52.7 x 33.9 mm

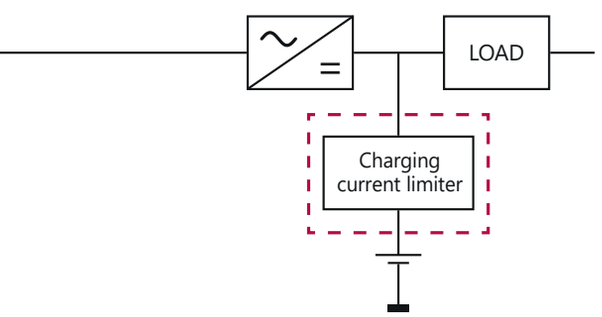
DC UPS Modules

Charge Controller

EVU2410

24 V DC UPS control unit for distribution boards / DIN rail mounting

Product name	Input voltage	Output voltage	Output current	Charging current
EVU2410	24–28 V DC	23–28 V DC	max. 10 A	0.5 A

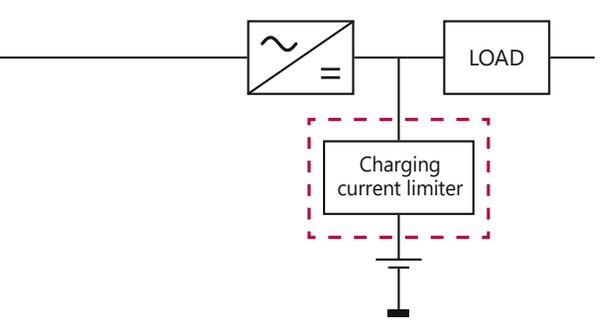


Info and webshop

USR2440-2

Monitoring and control assembly for 24 V DC UPS systems with deep discharge protection

Product name	Input voltage	Output voltage	Output current	Charging current
USR2440-2	24–28 V DC	23–28 V DC	max. 40 A	2 A

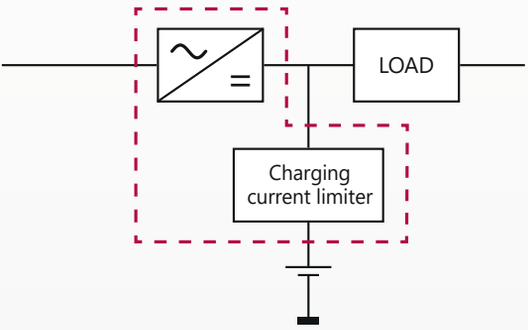


Info and webshop

UGS2420 and UGS2440

Versatile DC UPS modules with individually adjustable settings and comprehensive extras

Product name	Input voltage	Output voltage	Rated load capacity	Charging current
UGS2420	18–30 V DC	17.5–29.5 V DC	max. 20 A max. 30 A (7 sec. typ.)	0.75–3 A
UGS2440			max. 40 A max. 60 A (7 sec. typ.)	1–4 A

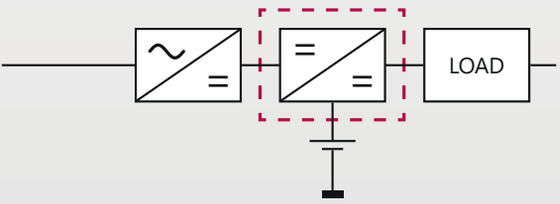


Info and webshop

UGVNG 20

Programmable DC UPS module with comprehensive extras

Product name	Input voltage	Output voltage	Output current	Supported storage technology
UGVNG 20	12–48 V DC	12–48 V DC	max. 20 A	Lead acid, NiMH, lithium rechargeable batteries, supercapacitors



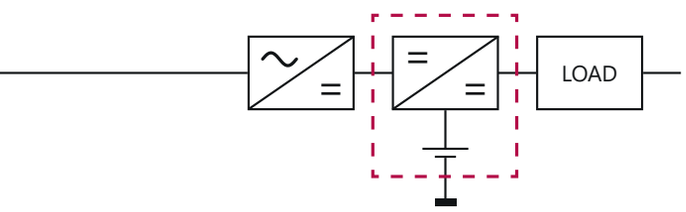
Info and webshop

Backup Capacitors

UGVC2425P and UGVC2440P

Powerful ultracapacitors for buffering

Product name	Rated input voltage	Rated input current DC	Rated output current DC	Energy content
UGVC2425P	24 V DC ±10%	max. 28 A	25 A	1.2 kJ
UGVC2440P		40 A	40 A	4 kJ

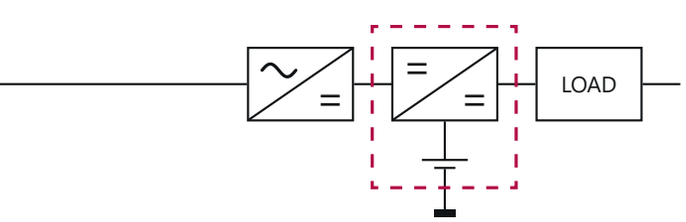


Info and webshop

UGVC2420NG, UGVC2440, and UGVC2440-2

Lifelong maintenance-free and fully industrial-grade capacitors

Product name	Input voltage	Output voltage	Buffer operation time	Output current
UGVC2420NG	22.8–28.8 V DC	24 V DC	5 sec. (1 A), 0.3 ms (20 A)	max. 20 A
UGVC2440	22.8–28.8 V DC		8 sec. (1 A), 0.6 ms (20 A), 0.2 ms (40 A)	max. 40 A
UGVC2440-2	22–29 V DC	22/24 V DC	8 sec. (1 A), 500/320 ms (20 A), 250/160 ms (40 A)	



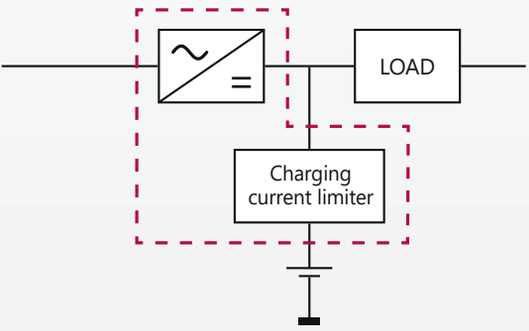
Info and webshop

All-in-one Devices

UNG24014 and UNG24022

Due to their modular design, the Wöhrle all-in-one units are a flexible DC UPS system. Various requirements such as the rated power and backup time can be adapted to the application and the energy storage device which is available separately. The units are used in combination with the appropriate energy storage device to protect systems and control processes against power failures.

Product name	Input voltage	Output voltage	Rated load capacity	Charging current
UNG24014	90–264 V AC 127–370 V DC	20–30 V DC depending on battery voltage	max. 1.4 A	0.75 A
UNG24022			max. 2.25 A	1.25 A



Technical data sheets

UNG2477-RS232 and UNG24154-RS232

Product name	Input voltage	Output voltage	Rated load capacity	Charging current
UNG2477-RS232	90–305 V AC 127–431 V DC	24–28.8 V DC	10 A	Adjustable
UNG24154-RS232		24–28.8 V DC	20 A	Adjustable

Info and webshop

DC UPS Systems

UGVC2401

- Regulated power supply unit with safe isolation
- Maintenance-free thanks to long-life ultracapacitors
- Microcontroller-based charging and discharging of ultracapacitors
- Operating and charging status monitoring via LEDs and signaling contacts

Product name	Input voltage	Output voltage	Rated power	Energy content
UGVC2401	80–264 V AC	23.3 V DC	1 A	0.6 kJ

Data sheet

UNG2403 and UNG2412

- Primary switch-mode power supply with I/U charging characteristic
- Active power factor correction (PFC)
- Microcontroller-based battery management
- Temperature-compensated charging voltage via external sensor
- Battery test via internal resistance measurement

Product name	Input voltage	Output voltage	Rated power	Charging current
UNG2403	196–265 V AC	24 V DC	3 A	0.5 A
UNG2412	100–240 V AC	24 V DC	10 A	2 A

Data sheet

UNG2403-USB

- Primary switch-mode power supply with I/U charging characteristic
- Active power factor correction (PFC)
- Microcontroller-based battery management
- Temperature tracking of charge voltage using external sensor
- Battery test via internal resistance measurement

Product name	Input voltage	Output voltage	Rated power	Charging current
UNG2403-USB	23.7–26.4 V DC	23 V DC	3 A	1.5 kJ

Data sheet

UGVC2410-5,8KJ and UGVC2410-13,4KJ

- Maintenance-free thanks to long-life ultracapacitors
- Low wiring effort due to the integration of the energy storage unit
- Microcontroller-based charging and discharging of ultracapacitors
- Mains monitoring via potential-free contact and LED
- Vibration-resistant wiring via spring-cage technology
- Wide temperature range -40 °C to 60 °C

Product name	Input voltage	Output voltage	Nominal power	Energy content	Backup time at 10 A
UGVC2410-5,8KJ	23.7–26.4 V DC	23 V DC	3 A	5.8 kJ	24.16 s
UGVC2410-13,4KJ	23.9–27.0 V DC	24 V DC	10 A	13.4kJ	55.83 s

Data sheet

Energy Storage Systems

Our energy storage systems offer the right solution for every application. The BE lead-gel series impresses with its robustness and freedom from maintenance, the ESM series stands for versatility and high performance, and the AKKU-SYS 24180S completes the portfolio with its compact design and reliable performance. With a maximum output current of up to 80 A our storage systems cover a wide range of applications, reliably and flexibly.

PRODUCT HIGHLIGHTS

End-of-charge voltage:
26.8–27.4 V DC

Maximum discharge current:
10–40 A

Capacity: 3.5–80 Ah

Info and webshop

Product name	Backup time in minutes										End-of-charge voltage	Charging current	Max. discharge current	Capacity	Combinable chargers
	1 A	1.5 A	2 A	2.5 A	3 A	5 A	10 A	20 A	30 A	40 A					
BE2401NG	36	25	–	27	10	5	–	–	–	–	26.8 – 27.4 V DC	0.12–0.36 A	5 A	1.2 Ah	EVU2410
BE2402NG	60	40	–	28	17	6	3	–	–	–		0.2–0.7 A	10 A	2.2 Ah	EVU2410
BE2403LI (Lithium)	160	124	68	53	42	22	4	–	–	–		1.4–1.65 A	10 A	3.3 Ah	UGVNG20
BE24035	150	–	65	50	40	20	4	–	–	–		0.35–0.5 A	10 A	3.5 Ah	EVU2410
ESM-B	280	–	132	110	90	47	18	4	–	–		0.5–2 A	20 A	6.0 Ah	EVU2410, USR2440-2
BE2407	320 760	–	150 370	125 295	100 15	50 110	22 54	6 16	2 4	30 s 1		0.75–2.25 A	30 A	7.2 Ah	USR2440-2, UGS2420, UGS2440
BE2407NG	320	–	150	125	100	50	22	6	–	–					
BE2409	340	–	165	132	110	55	25	8	4	–		0.9–2 A	20 A	9 Ah	USR2440-2, UGS2420, UGS2440
BE2412NG	360	–	180	150	120	65	26	17.5	–	–		1.2–3 A	25 A	12 Ah	USR2440-2, UGS2420, UGS2440
AKKU-SYS 24180S	810	–	405	320	270	160	80	30	15	10		1.5–3 A	40 A	17 Ah	USR2440-2, UGS2420, UGS2440, UNG2477-RS232
BE2417NG	810	–	405	320	270	160	80	30	15	10		1.7–2.5 A	28 A	17 Ah	USR2440-2, UGS2420, UGS2440, UNG2477-RS232
BE2424NG	1,000	–	600	400	278	180	100	32	17	–		2–3 A	35 A	24 Ah	UGS2420, UGS2440, UNG2477-RS232, UNG24154-RS232
BE2440NG	1,650	–	1,000	750	500	300	135	55	22	15		3–4 A	40 A	40 Ah	UGS2420, UGS2440, UNG2477-RS232, UNG24154-RS232
BE2480NG	3,150	–	2,000	1,400	950	580	285	120	53	45		8–10 A	40 A	80 Ah	UNG2477-RS232, UNG24154-RS232

Capacity data at +20 °C

Electronic Current Limiters

POWER-TEC 10.4

POWER-TEC 10.4 is a compact, four-channel electronic circuit breaker for DIN rail mounting and provides reliable load protection in industrial applications.

Each channel offers an individually adjustable overcurrent limiter with LED status display. The sequential switch-on reduces inrush current peaks, while the prioritized switch-off in the event of an overload increases system availability. With up to 10 A per channel, high short-circuit resistance and tool-free push-in connections, POWER-TEC 10.4 is a flexible and robust solution for modern 24 V DC systems.

Info and webshop

Product name	Input voltage	Trigger current	Number of independent channels	Shutdown characteristic
POWER-TEC 10.4	22–28 V DC	Seamlessly adjustable from 1 to 10 A per channel	4	B

ESB Series

The ESB series impresses with active current limiting, an integrated rated current assistant and lockable settings via rotary switches, allowing parameters to be adjusted quickly and safely.

Thanks to simple DIN rail installation and an overload capacity of 130%, the series is extremely versatile. Variants with 2, 4 and 8 channels enable flexible use in 24 V and 48 V systems.

Info and webshop

Product name	Input voltage	Trigger current	Number of independent channels	Shutdown characteristic
ESB10.2	10–31 V DC	2/4/6/10 A per channel	2	–
ESB10.4	18–30 V DC	1/2/4/6/10 A per channel	4	fast-acting
ESB10.8	18–30 V DC	1/2/4/6/8/10 A per channel	8	fast-acting
ESB10.8-48	36–58 V DC	1/2/4/6/8/10 A per channel	8	fast-acting

Redundancy Modules

EDI-RED20 and EDI-RED40

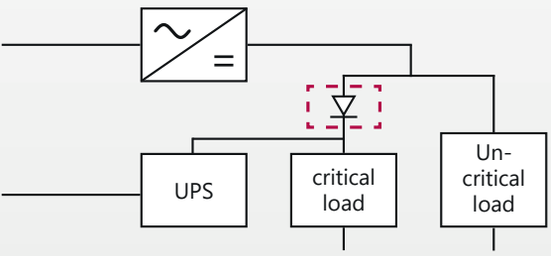
EDI-RED20 is used as a decoupling diode with separate monitoring of the input. It can be used as an accessory for uninterruptible 24 V DC power supply systems. It also has a relay contact and a LED that indicates the state on the input.

EDI-RED40 is with the broad range of input and output voltages from 22 to 60 V DC is able to support the supply of power while connected in parallel. The module can be variably configured and has a relay contact. It can also be used in a broad temperature range from -40 to +80 °C. For this reason it is also suitable for harsh industrial applications.

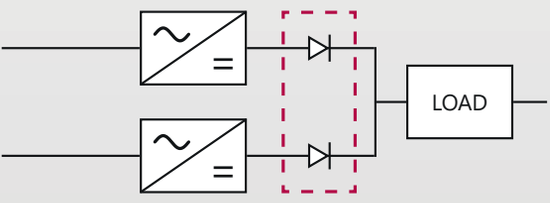
Info and webshop EDI-RED20

Info and webshop EDI-RED40

Product name	Input voltage	Output current
EDI-RED20	21–28 V DC	max. 20 A
EDI-RED40	22–60 V DC	max. 40 A



Use case 1:
Decoupling of critical paths to maintain the function of important components for longer.



Use case 2:
If a power source fails, the second power source automatically takes over the supply of power.

Special Solutions for Every Situation

Custom DC switchgear systems

Wöhrle Power Systems GmbH offers customized DC switchgear systems for a wide range of applications and voltage ranges.

Whether proven standard solution or complex special requirement, we develop custom DC switch cabinets that integrate seamlessly into your infrastructure.

Voltage ranges:
12 V DC | 24 V DC | 48 V DC | 60 V DC | 110 V DC | 220 V DC

We offer:

- Flexible equipment options, as required: classic lead-acid batteries
- Long-life lead-acid batteries with extended service life
- Compact cyclone cells for special applications
- Sophisticated technology, high-quality components and many years of experience in the DC supply sector
- Individual planning according to your specifications
- High reliability and safety
- Scalable systems for a wide range of applications
- Robust design for industrial environments


WTec
WÖHRLE
Z2410
WÖHRLE
UGVNG 20
RITTAL

WST Series

Single-phase transformers

The WST transformers are designed for industrial applications where reliability, durability, and operational safety are paramount. High-quality copper or aluminum windings, combined with a robust construction, ensure stable and low-loss operation even under demanding conditions.

The compact design allows for easy integration into control cabinets and systems. Thanks to vacuum impregnation, the units operate particularly quietly and offer high mechanical and electrical stability.

With a power range from 50 VA to 10 kVA and various voltage options, the WST series offers a flexible and reliable solution for mechanical engineering, automation, and industrial control systems.

PRODUCT HIGHLIGHTS

Power range from 50 VA to 10 kVA

Input voltage up to 1000 V

High-quality copper or aluminum windings

Voltage regulation and high short-term power

Vacuum-impregnated

Info and webshop

Product name	Power	Input voltage	Output voltage
WST50/230/24	50 VA	230 V	24 V
WST75/230/24	75 VA	230 V	24 V
WST100/230/24	100 VA	230 V	24 V
WST160/230/24	160 VA	230 V	24 V
WST200/230/24	200 VA	230 V	24 V
WST250/230/24	250 VA	230 V	24 V
WST50/400/230	50 VA	400 V	230 V
WST75/400/230	75 VA	400 V	230 V
WST320/230/24	320 VA	230 V	24 V
WST400/230/24	400 VA	230 V	24 V
WST500/230/24	500 VA	230 V	24 V
WST630/230/24	630 VA	230 V	24 V
WST800/230/24	800 VA	230 V	24 V
WST1000/230/24	1000 VA	230 V	24 V
WST1500/230/24	1500 VA	230 V	24 V
WST2000/230/24	2000 VA	230 V	23 V
WST2500/230/24	2500 VA	230 V	24 V
WST100/400/230	100 VA	400 V	230 V
WST160/400/230	160 VA	400 V	230 V
WST200/400/230	200 VA	400 V	230 V
WST250/400/230	250 VA	400 V	230 V
WST320/400/230	320 VA	400 V	230 V
WST400/400/230	400 VA	400 V	230 V
WST500/400/230	500 VA	400 V	230 V
WST630/400/230	630 VA	400 V	230 V
WST800/400/230	800 VA	400 V	230 V
WST1000/400/230	1000 VA	400 V	230 V
WST1500/400/230	1500 VA	400 V	230 V
WST2000/400/230	2000 VA	400 V	230 V
WST2500/400/230	2500 VA	400 V	230 V

WS3 Series

Three-phase isolating transformers

The WS3 Series comprises three-phase isolation transformers for industrial applications where a reliable power supply and safe electrical isolation are required. A robust design combined with high-quality windings ensures efficient and consistently stable operation.

Thanks to their compact design, the transformers can be easily integrated into control cabinets and systems. Vacuum impregnation reduces operating noise while simultaneously increasing mechanical strength and electrical insulation.

With power ratings ranging from 4 kVA to 630 kVA and standard voltage options, the WS3 series offers versatile applications in industry, plant engineering, and power distribution.

PRODUCT HIGHLIGHTS

Power range from 4 kVA up to 630 kVA

Input voltage up to 400 V

High-quality copper or aluminum windings

Voltage regulation and high short-term power

Vacuum-impregnated

Technical data sheets

Product name	Power	Input voltage	Output voltage	Dimensions (W x H x D)
WS3-4	4 kVA	400 V	400 V	250 × 300 × 190 mm
WS3-5	5 kVA	400 V	400 V	250 × 300 × 205 mm
WS3-6.3	6.3 kVA	400 V	400 V	360 × 350 × 220 mm
WS3-8	8 kVA	400 V	400 V	
WS3-10	10 kVA	400 V	400 V	420 × 405 × 225 mm
WS3-16	16 kVA	400 V	400 V	480 × 455 × 245 mm
WS3-20	20 kVA	400 V	400 V	480 × 455 × 265 mm
WS3-25	25 kVA	400 V	400 V	480 × 455 × 290 mm
WS3-30	30 kVA	400 V	400 V	480 × 455 × 305 mm
WS3-40	40 kVA	400 V	400 V	540 × 505 × 285 mm
WS3-50	50 kVA	400 V	400 V	540 × 460 × 315 mm
WS3-63	63 kVA	400 V	400 V	600 × 510 × 325 mm
WS3-80	80 kVA	400 V	400 V	600 × 510 × 350 mm
WS3-100	100 kVA	400 V	400 V	720 × 610 × 325 mm
WS3-125	125 kVA	400 V	400 V	720 × 610 × 355 mm
WS3-160	160 kVA	400 V	400 V	720 × 610 × 375 mm
WS3-200	200 kVA	400 V	400 V	900 × 760 × 325 mm
WS3-250	250 kVA	400 V	400 V	900 × 760 × 375 mm
WS3-300	300 kVA	400 V	400 V	900 × 760 × 395 mm
WS3-400	400 kVA	400 V	400 V	900 × 760 × 445 mm
WS3-500	500 kVA	400 V	400 V	
WS3-630	630 kVA	400 V	400 V	700 × 760 × 525 mm

C-ND Series

Line reactors

Wöhrle line reactors are installed between the frequency inverter and the power grid. They reduce voltage dips, dampen harmonics and extend the service life of drive systems.

They also reduce the short-circuit current and thus enable the use of more economical protective components.

The reactors are designed for voltages up to 1000 V and currents up to 2000 A. Depending on the version, the connection is made via terminals, rails or cables.

PRODUCT HIGHLIGHTS

Low-loss iron core

Copper or aluminum windings

High linearity and efficiency

Short-circuit voltage:
2% or 4%

Low noise and
moisture resistant

Webshop

Product name	Electricity	Inductance	Voltage drop	Dimensions in mm (W × H × D)
C-ND40010.293	10 A	2.93 mH	4%	120 × 85 × 125
C-ND40016.183	16 A	1.83 mH		150 × 80 × 150
C-ND40024.117	24 A	1.17 mH		180 × 91 × 175
C-ND40030.098	30 A	0.98 mH		
C-ND40037.081	37 A	0.81 mH		180 × 101 × 175
C-ND40050.059	50 A	0.59 mH		180 × 120 × 175
C-ND40075.0385	75 A	0.385 mH		240 × 108 × 205
C-ND40090.032	90 A	0.32 mH		
C-ND400110.027	110 A	0.27 mH		240 × 133 × 205
C-ND400150.018	150 A	0.18 mH		264 × 142 × 243
C-ND400180.0163	180 A	0.163 mH		300 × 162 × 225
C-ND400250.0118	250 A	0.118 mH		360 × 170 × 305
C-ND40010.147	10 A	1.47 mH	2%	120 × 75 × 125
C-ND40016.092	16 A	0.92 mH		
C-ND40025.059	24 A	0.59 mH		150 × 80 × 150
C-ND40030.049	30 A	0.49 mH		
C-ND40037.0367	37 A	0.367 mH		150 × 95 × 150
C-ND40050.0294	50 A	0.294 mH		180 × 91 × 175
C-ND40075.021	75 A	0.21 mH		180 × 101 × 175
C-ND40090.015	90 A	0.15 mH		240 × 108 × 225
C-ND400110.013	110 A	0.13 mH		240 × 118 × 225
C-ND400150.009	150 A	0.09 mH		240 × 168 × 205
C-ND400180.0082	180 A	0.082 mH		264 × 196 × 125
C-ND400250.0059	250 A	0.059 mH		300 × 197 × 255

Special Solutions & Higher Power Ratings

Tailored to customer requirements

Alongside standard products, our range also includes customer-specific products such that we can offer solutions for every requirement. The designs range from mains and isolating transformers, through safety and control transformers, to auto-transformers.

Upon customer request, the transformers are also installed in a housing and meet the degree of protection IP23 to IP54. In addition, the transformers can be equipped with PTC thermistors, fuse terminals, circuit breakers, NH isolators, screen windings between primary and secondary, cable clamp rails and cable entries.

Irrespective of whether standard or special solution, we place value on designing transformers with few losses.

Our many years of experience and our know-how enable us to provide competent advice for your individual solutions such that we can supply transformers that are optimal for your application.

UPS SimpLi Series

Single-phase line-interactive UPS system with 600 to 1500 VA power rating

Reliable power supply for sensitive devices

The line-interactive UPS offers a pure sine wave output voltage and thus guarantees the highest power quality and protection for sensitive loads. It starts automatically after longer power failures and has a built-in automatic voltage regulator (AVR) that stabilizes voltage fluctuations. The software enables event monitoring as well as targeted shutdown of IT equipment.

An LCD display shows the UPS status and all relevant parameters. Additionally, simple battery replacement is possible, while the plug-in function ensures that the battery remains charged even in the off state. The battery management system with a wide input and frequency voltage range extends battery life.

PRODUCT HIGHLIGHTS

Pure sinusoidal output

Maximum power quality and protection for sensitive loads

Integrated automatic voltage regulator

Straightforward battery replacement possible

Supplied with input, output, and USB cables

Info and webshop

	UPS SimpLi Series		
	UPS SimpLi 600 VA	UPS SimpLi 800 VA	UPS SimpLi 1500 VA
Power	600 VA	800 VA	1500 VA
	420 VA	560 VA	1050 VA
Input			
Rated voltage	160–290 V AC		
Frequency with battery power	50/60 Hz ± 1 Hz		
Output			
Wave shape	Pure sine		
Output sockets	1 IEC 320 - C13 + 1 Schuko		1 IEC 320 - C13 + 2 Schuko
Battery			
Battery type	12 V VRLA, AGM (maintenance-free)		
Operating time with internal battery (50% load)	7 min	4 min	
Operating time with internal battery (75% load)	2 min	2 min	
Ambient conditions			
Operating temperature	0–40 °C		
Relative humidity	0–90% (non-condensing)		
Operating altitude	< 1,000 m without power derating > 1,000 m with power derating (1% per 100 m)		
Noise level at 1 m	≤ 40 dB		
Communication / indication			
Communication connection	USB		
User interface	LCD for the indication of the operating mode (AC Mode/ AVR Mode/ Battery Mode), battery charge state, input and output voltage, percentage load, fault, battery status		
Software compatibility	Microsoft Windows, Linux, Mac OS		
General Data			
Alarm	Acoustic and visual alarm for: Mains power failure, low battery charge, overload, UPS malfunction		
Protection	Overload protection, short-circuit protection, protection against deep discharging, overcharging protection		
Other functions	Plug-in charging function for batteries, cold start with the battery without mains power		
Dimensions W H D	 116 171 305 mm	 116 171 305 mm	 165 198 393 mm
Weight	5.5 kg	7.1 kg	12.4 kg
Regulations			
Standards	IEC EN 62040-1, IEC EN 62040-2, IEC EN 62040-3		
Marking	CE		

CONVERT II

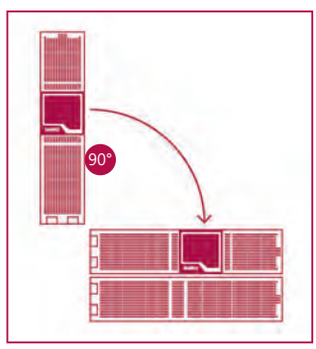
Single-phase, monoblock, 1 to 10 kVA

Optimal protection

The compact, single-phase systems of the CONVERT II series offer optimal protection against mains interference and power failure thanks to their reliable double-conversion technology (VFI) and electronic bypass. This ensures maximum supply security for sensitive applications while also increasing the service life of the connected loads.
Independent of interference in the mains supply, a stable, interference-free, sinusoidal output voltage is always produced.

Multiple use cases

CONVERT II systems can be operated conveniently via an LCD on the front of the housing. The display can be rotated 90 degrees depending on how the UPS is used.



PRODUCT HIGHLIGHTS

As a stand-alone unit or in a 19″ rack, vertical and horizontal use

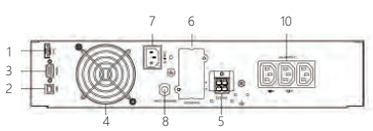
Power range from 1 to 10 kVA

Electronic bypass switch

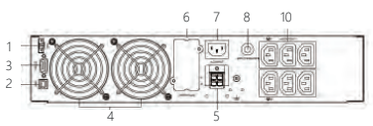
Integrated, maintenance-free and sealed lead-acid batteries

Info and webshop

1 K
1 U



2 K
2 U



3 K
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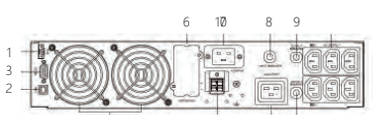

2 K
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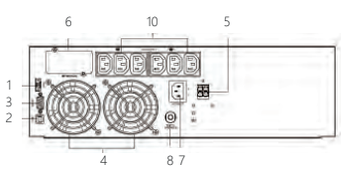
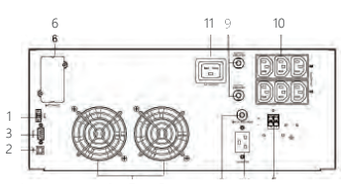


3 K
4 U



1. Emergency power off (EPO)/ Remote ON/OFF [Remote ON/OFF, ROO] potential free signal inputs (dry contact signal inputs)
2. USB port
3. RS-232 port
4. Fan
5. External battery connection
6. Slot for optional communication cards
7. Mains input socket
8. Circuit breaker for mains supply input
9. Output circuit breaker for two outputs
10. AC outputs (partly programmable, optional)
11. UPS output


INPUT
UPS
LOAD
Utility
230
ON
OFF
Enter
Convert II
Function
WÖHRLE
www.woehrle-svs.de

CONVERT II specifications

	CONVERT II							
	CON2-1K-2	CON2-2K-2	CON2-2K-3	CON2-3K-2	CON2-3K-4	CON2-6K-2 + CON2-BAT6/10K-3-20/9	CON2-6K-3 + CON2-BAT-6K-4-20/9	CON2-10K-3 + CON2-BAT6/10K-3-20/9
General Data								
Output power	1 kVA / 0.9 kW	2 kVA / 1.8 kW		3 kVA / 2.7 kW		6 kVA / 6 kW		10 kVA / 10 kW
Height units	2		3	2	4	5**	7**	6**
Power factor	0.9					1		
Topology	Online double conversion technology (VFI-SS)							
Parallel configuration	none					can be operated in parallel		
UPS type	monoblock							
Autonomy at 100% load	6 min			4 min		7 min (+CON2-BAT-6/10K-3-20/9)	7 min (+CON2-BAT-6/10K-4-20/9)	4 min (+CON2-BAT-6/10K-3-20/9)
Dimensions W H D	445 89 (2 U) 405 mm	445 89 (2 U) 600 mm	445 132 (3 U) 432 mm	445 89 (2 U) 600 mm	445 178 (4 U) 432 mm	445 x 89 (2 U) + 134 (3 U) 650 mm	445 x 134 (3 U) + 178 (4 U) 550 mm	445 x 134 (3 U) + 134 (3 U) 680 mm
Weight (with standard batteries)	14.7 kg*	25 kg*	24.2 kg*	25.8 kg*	26.2 kg*	87 kg**		92 kg**
Input								
Rated voltage	220 / 230 / 240 V (1 Ø)							
Input power factor	≥ 0.99 with 100% linear load							
Frequency	50/60 Hz, autoselect, ± 0.1%							
Output								
Voltage	230 V (208 / 220 / 230 / 240 V) (1 Ø)							
Harmonic distortion with linear load	< 3%							
Crest factor	3 : 1							
Efficiency								
Max. efficiency	up to 92%					up to 93%		up to 94%
In Eco mode with 100% load	up to 97%					up to 98%		
Communication								
Interfaces	RS-232, USB optional: SNMP card, Modbus card, Relay card					USB, RS-232, CAN bus; optional: SNMP card, Modbus card, Relay card		
Interfaces (input)	Remote Power OFF							
Battery								
Battery system	3 × 9 Ah	6 × 9 Ah				20 × 9 Ah		

* incl. built-in battery | ** incl. standard battery module

Plug-in battery replacement packs

Battery system faulty? No problem.
Standard batteries only have a service life of a few years, depending on where they are used. The UPS system therefore offers no or no longer sufficient protection in the event of a power failure.

With our plug-in battery replacement packages, there is no need to purchase a new UPS system. If required, we can also equip your UPS system with high-performance energy storage units with a service life of up to 10 years.

Battery expansions

	CONVERT II				
	CON2-BAT1K-4-12	CON2-BAT3K-2-12	CON2-BAT3K-4-12	CON2-BAT-6K-4-20/9	CON2-BAT6/10K-3-20/9
Battery expansion module for	1 kVA	2 and 3 kVA		6 kVA	6 and 10 kVA
Hold-up time increase by	38 min	20 min at 2 kVA 12 min at 3 kVA		7 min	7 min at 6 kVA 4 min at 10 kVA
Batteries	4 × 3 × 9 Ah	2 × 6 × 9 Ah		20 × 9 Ah	
Dimensions W H D	445 178 (4 U) 412 mm	445 89 (3 U) 660 mm	445 178 (4 U) 412 mm	445 178 (4 U) 550 mm	445 132 (3 U) 650 mm
Weight	44 kg			66 kg	

Special Solutions for Every Situation

AC UPS systems for industry

In industrial applications, the power supply determines productivity and safety. Wöhrle Power Systems GmbH offers customized AC UPS systems that keep your processes running reliably and without interruption, even under the most extreme conditions.

Your Requirements – our Solution.

Our UPS systems are precisely tailored to your infrastructure and impress with their robust technology, high flexibility and maximum availability.

Why a customized AC UPS from Wöhrle?

- Individually configurable:
  Suitable for infrastructure, environment & autonomy time
- Maximum operational safety:
  No interruption, no risk
- Industry-optimized:
  Shock-resistant, vibration-protected and IP-rated
- Able to communicate:
  With industry standard interfaces (e.g. Modbus, CAN)

Technology you can rely on:

- Special cabinets with IP protection up to and including climate control
- Optional lead-acid, Cyclon, or lithium battery technology
- Efficient power modules, tailored to your power requirements
- Mechanical protection for harsh industrial environments
- Open interfaces for integration into existing systems


QM1
QM2
PF1
PF2
Q1
Q2
Q0

Regenerative UPS Systems

During braking of special industrial systems, such as grinding machines, energy is generated that flows back into the UPS system's circuit.

This flow of energy not only interferes with the function of every UPS system, but also renders the system inoperable. There is even a risk of damage in the inverter and rectifier circuit.

By using special regeneration units combined with matching UPS systems, regenerative energy "flowing back" is converted ensuring the full functionality of the UPS.

» SO THAT BACKFEED DOES NOT BECOME A PROBLEM

Design & Visual Adaptations

Along with the technical components installed, upon request we will also adapt the design and the architecture of the cabinet to suit your overall system.

Advantages at a glance

- UPS architecture in stainless steel cabinet systems
- Special UPS cabinet architecture for robust applications in industrial environments
- Cabinets with protection class IP54 for the most comprehensive protection against splashed water
- Air-conditioned UPS systems

» AS INDIVIDUAL AS YOUR REQUIREMENT

Lithium Energy Storage Systems

Lead-acid batteries are currently still the most commonly used batteries in the UPS sector. However, much progress has been made in the field of energy storage in recent years and other technologies are being considered as alternatives.

Lithium in particular is becoming increasingly important.

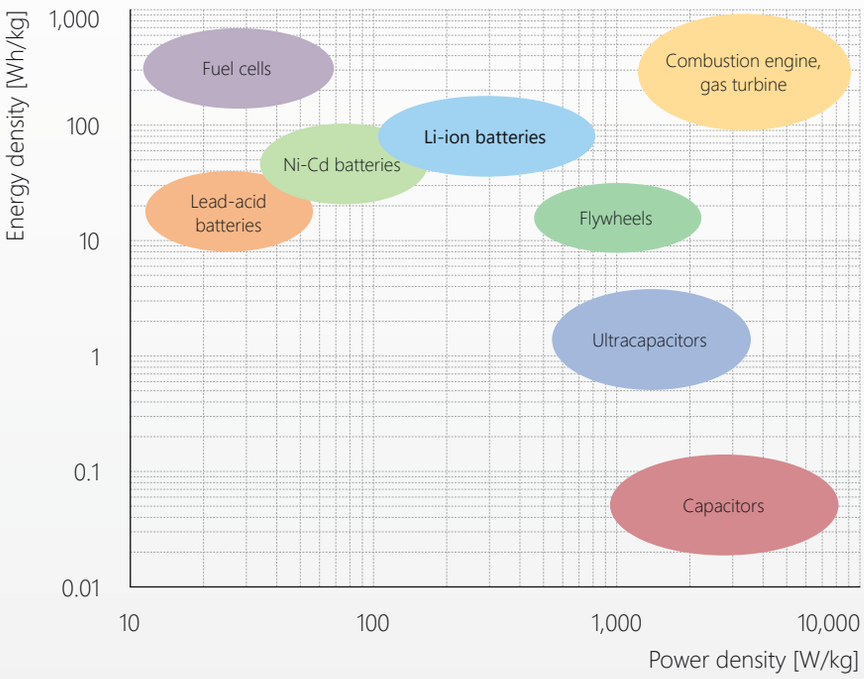
In addition to proven technologies, Wöhrle also relies on innovative storage solutions such as lithium and adapts the technology and design to your requirements.

Advantages at a glance

- High energy density and low space requirement
- Many charging and discharging cycles
- Long service life
- Intelligent Battery Management System (BMS)
- Safe lithium battery thanks to material and BMS

SIMPLE, SAFE AND RELIABLE

Energy Storage Comparison



Every energy storage system has its own advantages and disadvantages, so no single energy storage system is suitable for every application. Even within one type, there are many variants, which is why the right configuration depending on the application is essential.

Regardless of the technology, an energy storage system should have a good charging capacity, a reasonable number of cycles and a high level of intrinsic safety. The use of raw materials should also play a role in the choice:

- Does the energy storage device release hazardous substances?
- Are the raw materials highly and securely available?
- What about recycling?

Correct adaptation to the ambient conditions of the application is also extremely important. For example, the power density must be maintained over the entire required temperature range and the energy storage system must have a sufficiently long service life.

UPS Systems for Industrial and Critical Environments

Industrial environments place special requirements on high-performance UPS systems.

Entirely unlike applications in IT infrastructure, industrial UPS systems must respond to the special challenges of harsh industrial environments.

It is especially important to protect the UPS system against critical overvoltages. However, Wöhrle also meets the challenge of higher ambient temperatures and the requirements for extraordinarily robust systems with special industrial-grade solutions.

DESIGNED FOR HARSH ENVIRONMENTS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• Serv
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Unterbrechungsf
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