

PULS The Technology Leader



Efficient. Innovative. Different.

When I founded PULS over 40 years ago, we were a handful of developers with a common goal: We wanted to revolutionise power supply technology.

Today PULS is a global market and technology leader in the field of industrial power supplies, setting standards in DIN rail power supplies, decentralised Field Power Supplies, and pioneering wireless charging systems. This was made possible by our focus and a clear understanding of the applications and challenges which our customers face in their daily business.

I am proud of our global team that naturally strives for the next stage of product innovation as well as for an excellent technical service and customer support.

PULS power supplies are developed by a highly skilled R&D team at our inspiring headquarters in Munich / Germany as well as our growing innovation lab in Vienna / Austria.

Production is carried out in our own smart and environmentally friendly factories in Czechia, Germany and China. The entire value chain runs entirely under our supervision, as this level of control is very important to us. In customer audits, our factories are repeatedly praised for their efficiency, streamlined structure and sustainable objectives.

I am proud of what we have achieved for our customers over the past decades. The future promises many more exciting innovations in the field of industrial power supplies.

We invite you to take full advantage of it!

Bernhard Erdl

CEO, Chief Developer and Founder









Reliability

- Three company-owned factories in Czechia, Germany and China
- Highly-skilled technical application support
- Global sales and distribution network
- High delivery reliability



Products

- Wide product portfolio
- Focus on efficiency
- High MTBF and long lifetime
- Cool-design for low temperatures
- Compact and lightweight
- High peak output current
- Easy to use



- All resources focus on industrial power supply solutions
- High performing and sustainable organisational structure
- Decades of competence







The perfect power supply for your application



DIMENSION

Efficient, compact and durable IP20 DIN rail power supplies. Highest performance with multiple variants, features and approvals.



FIEPOS

FIELD POWER SUPPLY

Flexible Field Power Supplies with IP54, IP65 and IP67 rating for decentralised applications. A unique alternative to the control cabinet.



PIANO

Cost-optimised DIN rail power supplies with focus on basic features – without compromising quality and reliability.



MiniLine

Ultra-compact DIN rail power supplies for low-power applications.



PISA

Multi-channel electronic circuit breakers designed for current distribution and protection of DC 24 V load circuits.



	DIMENS	SION	PIAN	10	FIEP	os	Min	iLine	
	Full featu	ıres	Basic fea	atures	Decentr	alised	Low-	power	
Input voltage									
AC				AC 100-240 V AC 200-240 V		AC 100-240 V AC 200-240 V 3AC 380-480 V		AC 100-240 V AC 200-240 V 2AC 380-480 V	
DC	DC 12 / 24 / 48 DC 110-150 V DC 110-300 V				DC 110-300 V DC 200-300 V		DC 110-300 DC 290 V	V	
Output voltage (DC)	12 24 36 48	3 V	12 / 24 / 48 V		24 V		5 / 10 / 12 / 2	24 / 48 V	
Output power	80-960 W		36-480 W		360 W, 600 V	W	15-100 W		
Power reserves	20 % or 50 %		-		600 or 1,000	W (up to 5 s)	-		
Protection Class	IP20		IP20		IP54 IP65 and IP6	7	IP20		
Communication	DC OK Display versions IO-Link versions		DC OK		LED interface IO-Link versions Output OK versions		DC OK		
Terminal options	Screw, Push-ir Spring clamp	٦,	Screw, Push-in		7/8", M12-L/- Han Q series		Screw		
Special versions	 Conformal coating Enhanced DC input Remote shutdown 2 MOPP for medical applications EN 50155 for railway applications 		• Conformal of • Highline inp (AC 200-240 • NEC Class 2	ut voltage V)	 Up to 4 cur limited out Highline inp (AC 200-240 NEC Class 2 	outs out voltage o V)	• Conforma • -40 °C ope • NEC Class	ration	
	DIMENSI	ON	PIANO		FIEPO	os	Mini	Line	
Product series		page		page		page		page	
1-phase power supplies	CP, CPS, CS, QS	10-12	PIC, PIM	10-12	FPS, FPH	15	ML	10	
3-phase power supplies	CT, QT, XT	12			FPT	15	ML	12	
DC/DC converters	CD, QTD	13							
DC-UPS & buffer modules	UB, UC, UF	17							
Redundancy modules	YR	16	PIRD	16			MLY	16	
Electronic circuit breakers	PISA	18							
Mounting brackets	ZM	16							



DIMENSION Power supplies with integrated display

All data at a glance directly in your application. Our highly efficient 240 and 480 W DIN-rail power supplies with integrated power supply condition display (PSCD) enable faster fault diagnosis.

Real-time data

Input and output voltage, output current, operating hours and temperature inside the device

Recorded data

Number of transients on the input side, minimum and maximum voltage and temperature values

Pro tip

The PSCD is a helpful tool in the design in phase of a new machine to learn more about the behaviur of the system.

DIMENSION Power supplies with EtherCAT

The power supply units with EtherCAT interface enable efficient and time-saving configuration, operation monitoring and remote control. For this purpose, the devices provide numerous power supply and application data, such as voltage and current parameters on the input and output side.

Real-time control loops

Based on the data, drives or other energy-intensive consumers can be managed in the best possible way to keep the dynamic power requirement within the capabilities of the power supply system.

This enables improved system efficiency, as the power supply units are always optimally utilised.

Automation

Together with other system components, the power supply units enable automated reactions to cope with unplanned operating states, which previously often led to downtime or even damage.



Find more information about power supplies with integrated display via this QR code.



Find more information about power supplies with EtherCAT via this QR code.



PISA Electronic circuit breakers

The new multi-channel electronic circuit breakers PISA-M (4 channels) and PISA-B (8 channels) help you to optimise the availability of your DC power supply systems right away.



You can find all products listed on page 18. Find more information about PISA directly via this QR code.



Higher availability

Identify and isolate individual faulty branches



Higher reliability

Fast trouble-shooting via real-time LEDs and alarm signal



Tool-free installation

Simple cabling thanks to push-in connections and configuration via push-button



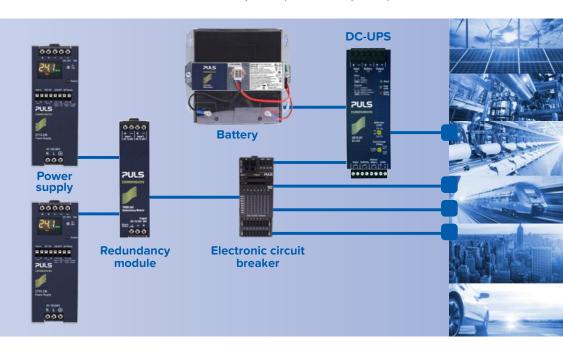
Higher packing density

Immediately more space in the switch cabinet thanks to the narrow width of just 22.5 mm (PISA-M) and 52 mm (PISA-B)

Think of your power supply as a system

A power supply system includes more than just the power supply unit itself. DC UPS, fuses and redundancy or buffer modules contribute to a holistic solution.

PULS provides all necessary products to plan an efficient and reliable power supply system for your cabinet.





Flexible. Reliable. Durable.

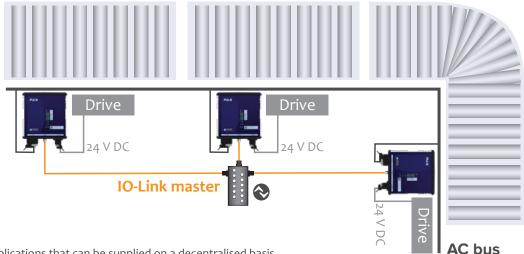
Decentralised Power Supplies

The decentralised FIEPOS field power supplies with a high degree of ingress protection IP54, IP65 and IP67 were developed for flexible use directly in the field.

The field power supplies are available for one-phase and three-phase systems and in various versions: for example, with a variety of different connectors (e.g. 7/8", Han Q series, M12) and IO-Link as communication interface.

Also unique on the market are the eFused versions, which are equipped with up to four current-limited outputs. These devices allow very easy realisation of selective current distribution, protection, and monitoring directly in the field.

Application example for a FIEPOS powered conveyor belt:



There are many applications that can be supplied on a decentralised basis and in an energy-efficient and flexible manner. Individual system parts can be put together in a modular way, allowing them to be extended, maintained, and converted more effectively.





Space savings and flexibility

The compact housing with a high degree of IP protection (IP54, IP65 and IP67) and various connector options facilitates flexible use directly in the field.



Excellent system availability

The selective protection means only faulty outputs are switched off, which makes for excellent system availability.



Environmentally friendly

The high degree of efficiency of > 95% keeps the device in the defined temperature range.

This means there is no need for an environmentally harmful potting compound for cooling the electronic components.



Ease of use

The output voltage and the current-limited outputs (eFused series) can be monitored and set directly via the LED interface and the push buttons on the front of the device or remotely via IO-Link.



You can find all products listed on page 15.

More information about FIEPOS:

www.pulspower.com or directly via this QR code.



Overview – Power supplies IP20

100-240 V Power Supplies

Output [C	Article number	Power	Input AC	Input DC	Special features
5 V	3 A	ML15.051	15 W	AC 100-240 V	DC 110-300 V	NEC Class 2
	5 A	ML30.101	25 W		DC 110-300 V	NEC Class 2
12 V	1.3 A	ML15.121	15 W	AC 100-240 V	DC 110-300 V	NEC Class 2
	2.5 A	ML30.102	30 W		DC 110-300 V	NEC Class 2
	4.2 A	ML50.102	50 W		DC 110-300 V	NEC Class 2
	4.5 A	ML60.121	54 W		DC 110-300 V	NEC Class 2
		ML60.122			DC 110-300 V	-40 °C to +70 °C
	5 A	PIM60.121	60 W			Push-in terminals, NEC Class 2
		PIM60.125				Screw terminals, NEC Class 2
	7.5 A	ML100.102	90 W	AC 100-120 / 220-240 V	DC 290 V	
	10 A	CP5.121	120 W	AC 100-240 V	DC 110-150 V	
	15 A	QS10.121	180 W		DC 110-150 V	
	16 A	CP10.121	192 W		DC 110-150 V	Remote ON/OFF
		CP10.122			DC 110-300 V	Enhanced DC input range, remote ON/OFF
	30 A	CPS20.121	405 W			
±12 V	2.5 A	ML30.106	36 W	AC 100-240 V	DC 110-300 V	Dual-output voltage, NEC Class 2
24 V	0.63 A	ML15.241	15 W	AC 100-240 V	DC 110-300 V	NEC Class 2
	1.3 A	ML30.100	30 W		DC 110-300 V	NEC Class 2
		ML30.241			DC 110-300 V	NEC Class 2
		PIM36.241	36 W			Push-in terminals
	2.1 A	ML50.100	50 W		DC 110-300 V	NEC Class 2
		ML50.101			DC 110-300 V	NEC Class 2
		ML50.111			DC 110-300 V	With plug connector
	2.5 A	ML60.241	60 W		DC 110-300 V	NEC Class 2
		ML60.242			DC 110-300 V	-40 °C to +70 °C
		PIM60.241				Push-in terminals, NEC Class 2
		PIM60.245				DC OK LED, NEC Class 2
	3 A	ML70.100	72 W	AC 100-120 / 220-240 V	DC 290 V	NEC Class 2
	3.3 A	CS3.241	80 W	AC 100-240 V	DC 110-300 V	NEC Class 2
	3.4 A	QS3.241			DC 110-300 V	
	3.75 A	PIM90.241	90 W			Push-in terminals
		PIM90.245				Screw terminals
		PIM90.245-L1				NEC Class 2
	3.8 A	QS5.DNET	91 W		DC 110-300 V	DeviceNet approved
	3.9 A	ML95.100	95 W	AC 100-120 / 220-240 V	DC 290 V	NEC Class 2
	4.2 A	ML100.100	100 W		DC 290 V	

DIMENSION	C, Q, U, X, Z
PIANO	PIC, PIM, PIRD
MiniLine	ML



Output DO		Article number	Dawar	Input AC	Input DC	Special features
•			Power 120 W	AC 100-240 V	DC 110-150 V	Screw terminals
24 V	4 V 5A	CP5.241 CP5.241-S1	120 00	AC 100-240 V	DC 110-150 V	Spring clamp terminals
		CP5.241-S2			DC 110-150 V	Push-in terminals
				AC 100-120 / 200-240 V	DC 110-150 V	Screw terminals
		CS5.241		AC 100-120 / 200-240 V		
		CS5.241-S1		AC 100 210 V	DC 110-300 V	Spring clamp terminals Enhanced DC input range
		CP5.242		AC 100-240 V AC 100-120 V		
		CS5.243				Reduced input voltage range
		CS5.244		AC 200-240 V		Reduced input voltage range
		PIC120.241C				Reduced input voltage range
		PIC120.242C				Reduced input voltage range, no DC OK relay
		PIC120.241D		AC 100-120 / 200-240 V		Dual input range
_		QS5.241		AC 100-240 V	DC 110-300 V	
_	8 A	QS10.DNET	192 W		DC 110-150 V	DeviceNet conform
	10 A	CP10.241	240 W	AC 100-240 V	DC 110-150 V	Screw terminals
		CP10.241-S1			DC 110-150 V	Spring clamp terminals
		CP10.241-S2			DC 110-150 V	Push-in terminals
		CP10.242			DC 110-300 V	Enhanced DC input range
		CP10.248			DC 110-150 V	Power supply condition display
		PIC240.241C		AC 200-240 V		Reduced input voltage range
		PIC240.241D	_	AC 100-240 V		Wide input voltage range
		CS10.241		AC 100-120 / 200-240 V		Dual input voltage range
		CS10.241-S1				Spring clamp terminals
		CS10.242			- 	PFC Class A (EN 61000-3-2) compliant
		CS10.243		AC 100-120 V		Reduced input voltage range
		CS10.244		AC 200-240 V		Reduced input voltage range
		QS10.241		AC 100-240 V	DC 110-150 V	
_		QS10.241-D1			DC 110-300 V	Enhanced DC input range
	20 A	CP20.241	480 W	AC 100-240 V	DC 110-150 V	Screw terminals
		CP20.241-S1			DC 110-150 V	Spring clamp terminals
		CP20.241-S2			DC 110-150 V	Push-in terminals
		CP20.241-V1			DC 110-150 V	Remote ON/OFF
		CP20.248			DC 110-150 V	Power supply condition display
		PIC480.241C		AC 200-240 V		Reduced input voltage range
		PIC480.241D		AC 100-240 V		Wide input voltage range
		CPS20.241				
		QS20.244		AC 200-240 V		Reduced input voltage range
_		QS20.241		AC 100-240 V	DC 110-150 V	
	40 A	QS40.241	960 W	AC 100-240 V	_ -	Wide input voltage range
		QS40.244		AC 200-240 V		

Overview – Power supplies IP20

100-240 V Power Supplies

Output D	C	Article number	Power	Input AC	Input DC	Special features
30 V	8 A	QS10.301	240 W	AC 100-240 V	DC 110-150 V	Spring clamp terminals
36 V	6.7 A	CP10.361		AC 100-240 V	DC 110-150 V	Screw terminals
	13.3 A	CPS20.361	480 W			
		QS20.361			DC 110-150 V	
	26.7 A	QS40.361	960 W			
48 V	1.1 A	ML50.105	50 W	AC 100-240 V	DC 110-300 V	Enhanced DC input range
	2.1 A	ML100.105	100 W	AC 100-120 / 220-240 V	DC 290 V	Dual input voltage range
	2.5 A	CP5.481	120 W	AC 100-240 V	DC 110-150 V	
	5 A	CS10.481	240 W	AC 100-120 / 200-240 V		Dual input voltage range
		QS10.481		AC 100-240 V	DC 110-150 V	
		QS10.481-D1			DC 110-300 V	Enhanced DC input range
	5.4 A	CP10.481	260 W		DC 110-150 V	
	10 A	CP20.481	480 W		DC 110-150 V	
		CPS20.481			<u></u>	
		PIC480.481D				
		QS20.481			DC 110-150 V	
	20 A	QS40.481	960 W			
		QS40.484		AC 200-240 V		

380-480 V Power Supplies

Output D	C	Article number	Power	Input AC	Special features
12 V	8 A	CT5.121	96 W	2AC 380-480 V	
24 V	3.75 A	ML90.200	90 W	2AC 380-480 V	NEC Class 2
	4.2 A	ML100.200	100 W		
	5 A	CT5.241	120 W		
	10 A	CT10.241	240 W	3AC 380-480 V	
	20 A	QT20.241	480 W		
	40 A	QT40.241	960 W		
		QT40.242			Enhanced lifetime
		XT40.241		3AC 400 V	Semi-regulated
		XT40.242		3AC 480 V	Semi-regulated
36 V	13.3 A	QT20.361	480 W	3AC 380-480 V	
	26.6 A	XT40.361	960 W	3AC 400 V	Semi-regulated
		XT40.362		3AC 480 V	Semi-regulated
	26.7 A	QT40.361		3AC 380-480 V	
48 V	5 A	CT10.481	240 W	3AC 380-480 V	
	10 A	QT20.481	480 W		
	20 A	QT40.481	960 W		
		XT40.481		3AC 400 V	Semi-regulated
		XT40.482			Semi-regulated
72 V	13.3 A	XT40.721		3AC 400 V	Semi-regulated
		XT40.722		3AC 480 V	Semi-regulated



Power supplies with IO-Link

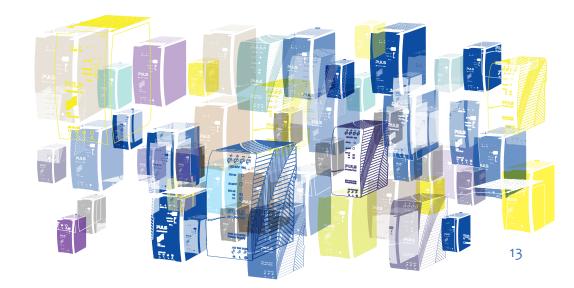
Output DC		Article number	Power	Input	Special features
24 V	20 A	CP20.242-IOL	480 W	AC 100 - 240 V DC 110 - 300 V	IO-Link, extended DC range
	40 A	QT40.241-IOL	960 W	3AC 380-480 V	IO-Link

Power supplies with EtherCAT

Output DC		Article number	Power	Input	Special features
24 V	10 A	CP10.241-ETC	240 W	AC 100 - 240 V DC 110 - 300 V	EtherCAT, extended DC range
	20 A	CP20.241-ETC	240 W	AC 100 - 240 V DC 110 - 300 V	EtherCAT, extended DC range
48 V	10 A	CP20.481-ETC	480 W	AC 100 - 240 V DC 110 - 300 V	EtherCAT, extended DC range

DC/DC converters

Output DC		Article number	Power	Input DC	Special features
5 V	10 A	CD5.051	50 W	DC 18-32.4 V	
12 V	8 A	CD5.121	96 W	DC 24 V	
24 V	3.8 A	CD5.241-L1	92 W	DC 24 V	Spring clamp terminals, NEC Class 2
_	4 A	CD5.243	96 W	DC 12 V	Screw terminals
	5 A	CD5.241	120 W	DC 24 V	Screw terminals
		CD5.241-S1		DC 24 V	Spring clamp terminals, input "low" signal
_		CD5.242		DC 48 V	Screw terminals
	10 A	CD10.241	240 W	DC 24 V	
		CD10.242		DC 48 V	
	20 A	CPS20.241-D1	480 W	DC 110-300 V	
_		QTD20.241		DC 600 V	For intermediate DC bus
48 V	5 A	CD10.482	240 W	DC 48 V	
	10 A	CPS20.481-D1	480 W	DC 110-300 V	Enhanced DC input range





Conformally coated power supplies

Output DO	:	Article number	Power	Input AC	Input DC	Special features
24 V	2.1 A	ML50.109	50 W	AC 100-240 V	DC 110-290 V	NEC Class 2
-	4.2 A	ML100.109	100 W	AC 100-120 / 220-240 V	DC 290 V	
_	5 A	CP5.241-C1			DC 110-150 V	
		CS5.241-C1	120 W	_		
		QS5.241-A1		AC 100-240 V	DC 110-300 V	ATEX
_	10 A	CP10.241-C1	240 W	AC 100-240 V	DC 110-150 V	
		CP10.241-R2-C1			DC 110-150 V	*
		QS10.241-C1			DC 110-150 V	
		QS10.241-A1			DC 110-150 V	ATEX
_		CT10.241-C1		3AC 380-480 V		
	20 A	CP20.241-C1	480 W	AC 100-240 V	DC 110-150 V	
		CP20.241-R2-C1			DC 110-150 V	
		CPS20.241-C1				*
		QS20.241-A1			DC 110-150 V	ATEX
		QS20.241-C1			DC 110-150 V	
		PIC480.241C-C1		AC 200-240 V		
_		QT20.241-C1		3AC 380-480 V		ATEX
	40 A	QS40.241-C2	960 W	AC 100 - 240 V		

^{*} Output decoupling for redundancy, plug connectors

Medical applications – IEC 60601-1 compliant, 2 MOPP

Output DC		Article number	Power	Input AC	Input DC
24 V	5 A	CP5.241-M1	120 W	AC 100-240 V	
	10 A	CP10.241-M1	240 W		DC 110-150 V
	20 A	CP20.241-M1	480 W		DC 110-150 V

Railway applications — EN 50155 compliant

Output De	С	Article number	Power	Input DC
24 V	4.2 A	QS5.241-60	100 W	DC 110 V
	8.3 A	CP10.241-60	200 W	DC 96-110 V
24.5 V	16.3 A	CPS20.241-60	400 W	DC 110 V

DeviceNet power supplies

Output DO	_	Article number	Power	Input AC	Special features
24 V	3.8 A	QS5.DNET	91 W	AC 100-240 V	DC 110-300 V, NEC Class 2
8 A QS10.DNET		192 W		DC 110-150 V	

DIMENSION	C, Q, U, X, Z
FIEPOS	FPS, FPH, FPT
PIANO	PIC, PIM, PIRD
MiniLine	ML



Overview -Power supplies IP54, IP65 and IP67

IP54, IP65 and IP67 power supplies, 100-240 V

Output DC	Article number	Power	Input AC	Input DC	Special features
24 V 15 A	FPS300.241-002-101	360 W	AC 100-240 V	DC 110-300 V	DC OK, input: Han Q 4/2, output: Han Q 4/0
	FPS300.245-016-101				IO-Link, 2 channel, input: 7/8" - 3 pin, output: 1 x 7/8" 5 pin
	FPS300.245-034-105				IO-Link, 4 channel, input: M12-S, output: 2 x M12-L
	FPS300.245-047-103				IO-Link, 4 channel, input: 7/8" 3 pin, output: 2x 7/8" 4 pin
	FPS300.245-047-111				Output OK, 4 channel, input: 7/8" 3 pin, output: 2 x 7/8" 4 pin
	FPS300.245-049-102				Output OK, 3 channel, input: 7/8" 3 pin, output: 2 x 7/8" 4 pin
	FPS300.246-049-102				IO-Link, 3 channel NEC Class 2, input: M12-S, output: 3 x M12-L
	FPS300.245-049-112				IO-Link, 3 channel, input: 7/8" 3 pin, output: 3 x 7/8" 4 pin

IP54, IP65 and IP67 power supplies, 200-240 V (highline)

Output DC	Article number	Power	Input AC	Input DC	Special features
24 V 25 A	FPH500.245-024-103	600 W	AC 200-240 V	DC 200-300 V	IO-Link, 3 channel, input: 7/8" 3 pin, output: 3 x M12-L
	FPH500.245-047-104				Output OK, 4 channel, input: 7/8" 3 pin, ouput: 2 x 7/8" 4 pin

IP54, IP65 and IP67 power supplies, 380-480 $\rm V$

Output	DC:	Article number	Power	Input AC	Input DC	Special features
24 V	12.5 A	FPT300.246-042-101	300 W	3AC 380-480 V		Output OK, 4 channel, input: Han Q 5/0, Output: 4 x M12-A
	15 A	FPT300.242-002-101	360 W			DC OK, input: Han Q 4/2, output: Han Q 4/0
	25 A	FPT500.241-001-102	600 W			Input: Han Q 4/2, output: Han Q 4/0
		FPT500.241-002-101				DC OK, input: Han Q 4/2, output: Han Q 4/0
		FPT500.241-006-104				DC OK, input: Han Q 4/2, output: ASi cable
		FPT500.241-010-108				DC OK, input: Han Q 4/2, output: Han Q 2/0
		FPT500.245-018-103				IO-Link, 4 channel, input: M12-S, output: 2 x 7/8" 4 pin
		FPT500.245-034-105				IO-Link, 4 channel, input: M12-S, output: 2 x M12-L
		FPT500.245-034-106				Output OK, 2 channel, input: M12-S, output: 2 x M12-L
		FPT500.245-062-117				IO-Link, 4 channel, input: M12-S, output: 2 x 7/8" 5 pin
		FPT500.247-064-102				IO-Link, 3 channel, input: 7/8", output: 1 x M12-A, 2 x 7/8" 5 pin

Overview – Supplementary units

DIODE redundancy modules

Output DC		Article number	Input	Version
12-28 V	20 A	PIRD20.241	DC 12-28 V 2 x 1 0 A	Dual-input
12-48 V	10 A	MLY10.241	DC 12-48 V 2 x 5 A	Dual-input
		MLY02.100	DC 12-48 V 2 x 5 A	Dual-input
	20 A	YR2.DIODE	DC 12-48 V 2 x 10 A	Dual-input Dual-input
24-48 V	20 A	YRM2.DIODE	DC 24-48 V 2 x 10 A	Dual-input Dual-input

MOSFET redundancy modules

Output DC		Article number	Input	Version
12-28 V	20 A	YR20.242	DC 12-28 V 2 x 0-10 A	Dual-input
	40 A	YR40.242	DC 12-28 V 2 x 20 A	Dual-input
		YR40.241	DC 24-28 V 2 x 20 A	Dual-input
		YR40.245	DC 12-28 V 1 x 40 A	Single-input
	80 A	YR80.241	DC 24-28 V 2 x 40 A	Dual-input
		YR80.242	DC 12-28 V 2 x 40 A	Dual-input
24-28 V	20 A	YR20.246	DC 24-28 V 2 x 10 A	Dual-input
24-56 V	40 A	YR40.482	DC 24-56 V 2 x 20 A	Dual-input

Power supplies with integrated decoupling function

Output DC		Article number	Power	Input AC	Input DC	Special features
24 V	10 A	CP10.241-R1	240 W	AC 100-240 V	DC 110-150 V	Spring clamp terminals
		CP10.241-R2			DC 110-150 V	Plug connectors
		CP10.241-R2-C1			DC 110-150 V	Conformal coating
		CP10.242-R2		_	DC 110-300 V	Enhanced DC input range, plug connectors
	20 A	CP20.241-R1	480 W		DC 110-150 V	Spring clamp terminals
		CP20.241-R2			DC 110-150 V	Plug connectors
		CP20.242-R2			DC 110-300 V	Plug connectors
		CP20.241-R2-C1			DC 110-150 V	Plug connectors

Mounting brackets

Article number	Description
ZM1 – ZM3.WALL, ZM1.UBC10	Mounting bracket for a direct wall or panel mounting without a DIN rail
ZM10.WALL	Mounting bracket for a direct wall or panel mounting without a DIN rail
ZM11.SIDE – ZM15.SIDE	Brackets for sideways installation with or without a DIN rail

DC-UPS for batteries

Output DC		Article number	Battery	Version
24 V	10 A UB10.241		external, 12 V, 3.9-40 Ah	DC-UPS control unit
		UB10.242	external, 12 V, 17-130 Ah	DC-UPS control unit
		UB10.245	external, 12 V, 3.9-40 Ah	Additional 12 V output
UBC10		UBC10.241	built-in 12 V, 5 Ah	Built-in battery included
		UBC10.241-N1	built-in 12 V, 5 Ah	Built-in battery not assembled
	20 A	UB20.241	external, 24 V, 3.9-150 Ah	DC-UPS control unit
	40 A	UB40.241	external, 24 V, 12-200 Ah	DC-UPS control unit

DC-UPS with capacitor storage

Output DC		Article number	Capacitor storage
24 V	15 A	UC10.241	6 kWs, typ. buffer time 9 s at 15 A
		UC10.242	12 kWs, typ. buffer time 18 s at 15 A

Buffer modules with capacitor storage

Output DC		Article number	Capacitor storage
24 V	20 A	UF20.241	o.2 kWs, typ. buffer time 310 ms at 20 A
	40 A	UF40.241	o.32 kWs, typ. buffer time 250 ms at 40 A
48 V	20 A	UF20.481	0.2 kWs, typ. buffer time 150 ms at 20 A



Overview – Supplementary units



Electronic circuit breakers

Output DC		Output channels	Article number	Special features
12 V / 24 V	4 x configurable current limits 1, 2, 3, 4, 6, 8 A	4	PISA-M-4ADJ	Configurable, auto-voltage selection
	4 x 2 A	4	PISA-M-402	Automatic voltage selection
	4 x 4 A	4	PISA-M-404	Automatic voltage selection
	6 A per channel, total max. 20 A	4	PISA-M-406	Automatic voltage selection
	8 A per channel, total max. 20 A	4	PISA-M-408	Automatic voltage selection
24 V	2 x 1-12 A, 6 x 1-10 A	8	PISA-B-812-B1	Common alarm signal
	8 x NEC Class 2, 3.75 A per channel	8	PISA-B-8CL2-B1	Common alarm signal, NEC Class 2
	2 x 1-12 A, 6 x 1-10 A	8	PISA-B-812-B4	Digital coded alarm signal
	8 x NEC Class 2, 3.75 A per channel	8	PISA-B-8CL2-B4	Digital coded alarm signal, NEC Class 2
	4 x 1 A	4	PISA11.401	NEC Class 2
	4 x 2 A	4	PISA11.402	NEC Class 2
	4 x NEC Class 2, 3,75 A per channel	4	PISA11.CLASS2	NEC Class 2

PISA	B, 11, M

Approvals & product compliance

Region specific:















Application specific:

ABS





IECEx

SEMI F47

EN 50155 IEC 61558-2-16 IEC 60068-2-60 IEC 60601-1

Applications for PULS power supplies



Value-add system solutions

Value-add combines the advantages of standard power supplies with customer-specific flexibility.

With the Value-add platform, you get your tailor-made power supply, quickly and cost-effectively. PULS modifies proven standard power supplies and, if necessary, combines them with customer-specific modules from its subsidiary PULS Vario.

With the value-add system, you benefit from many advantages:



The time until completion of a value-add solution is significantly shorter than for development projects of purely customised power supplies.



Value-add solutions are cheaper than customised power supplies due to the existing technological foundation.



Value-add solutions are based on proven circuit designs that meet the highest technological standard. In addition, you benefit from the first-class series quality of our standard power supplies.

When does a value-add solution make sense?

Technical parameters for value-add

Application environment for value-add

Economic considerations for value-add

If your task cannot be solved with standard power supplies alone, it makes sense to consider a Value-Add solution.

- Special voltage ranges
- Very high peak load current
- Buffering DC-UPS
- Features for monitoring and regulation
- Mechanical changes
- Extreme ambient temperatures
- High vibration and shock
- Absolute reliability and system stability
- Save development costs
- Minimise risk
- Samples available quickly
- Fast access times
- Small quantity needed

You can find more about value-add system solutions here on our website.

Example: Value-add solution that integrates a PIANO power supply with an expanded temperature range and a customised micro DC-UPS.

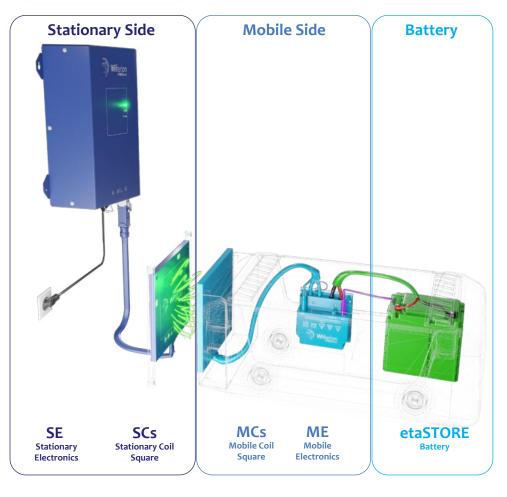




PULS analyses the potential of technological future fields always from the perspective of its customers. In 2023, the unique opportunity arose to acquire the innovative technology of the wireless charging specialist Wiferion for our product portfolio: Inductive charging systems for industrial driverless transport systems and mobile robots.

By including Wiferion's solutions in our portfolio, we are able to provide a complete ecosystem for the supply and wireless charging of decentralised transport systems and robots.

Overview – Wireless Charging

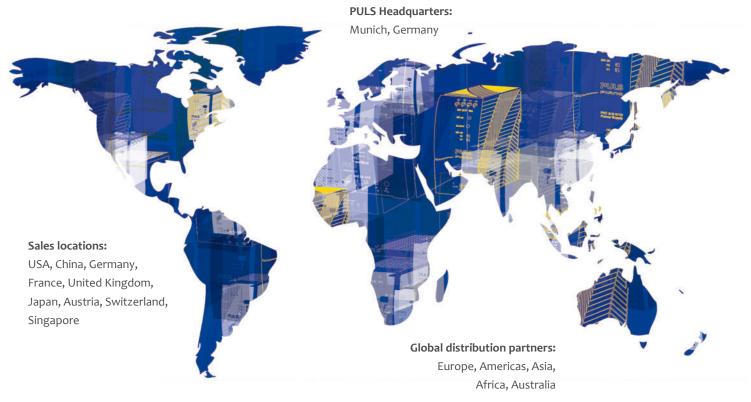




You can find more about Wiferion - a PULS brand



Customer support near you





Find all contacts here:

Shared knowledge



You can find helpful information about industrial power supplies and application examples in our PULS blog.



Global Sales Team



Our qualified global sales teams are looking forward to supporting you in all questions regarding general product information, prices, availability and delivery times.

Please visit our website to find your contact person: www.pulspower.com





Global application engineering team

Our global application engineering team is committed to providing the best possible solution according to your requirements and assist you in overcoming technical challenges. With years of experience and access to cutting-edge tools, our technical experts are able to find solutions tailored to your exact application requirements during all project phases.

Contact us today and find out how we can assist you in choosing the perfect and reliable solution for your needs.

