

Power Supply PS1000-A6-24.5

- 100 V AC to 240 V AC wide-range input
- Output 24 V DC, 5 A, 120 W, 1-phase
- Housing width 32 mm
- Efficiency up to 94.3 %
- Minimal inrush current surge
- DC OK relay contact
- Suitable for Zone 2/Div. 2 mounting











Function

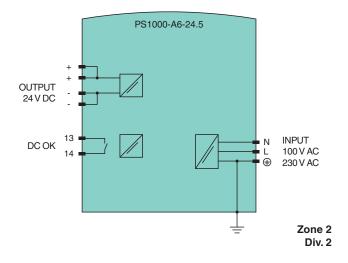
The device is used to supply field devices with 24 V DC and 5 A.

The device has a power reserve of 20 % included, which may even be used continuously at temperatures up to +45 °C. The output voltage can be adjusted via a potentiometer. The device status is indicated by an LED.

The device has a relay contact output for remote monitoring.

The device is mounted on a 35 mm DIN mounting rail according to EN 60715.

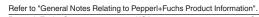
Connection



Technical Data

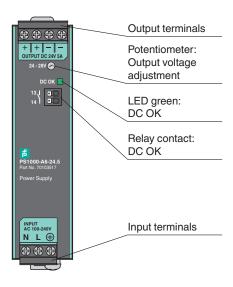
Electrical specifications	
Efficiency	93.6 % at 120 V AC 94.3 % at 230 V AC
Power dissipation	8.2 W at 120 V AC 7.3 W at 230 V AC
Input	
Voltage range	100 240 V AC (-15 %/+10 %), 50 60 Hz (±6 %) 110 150 V DC (±20 %)
Current	1.09 A at 120 V AC 0.6 A at 230 V AC 1.21 A at 110 V DC for lower output currents see technical information

Innush current S A pack at 120 V AC and ambient temperature 40 °C (104 °F) of A pack at 120 V AC and ambient temperature 40 °C (104 °F) or arribinent temperature 40 °C (140 °F) or arribinent 40 °C (140 °F) or ar	Technical Data		
6 A peak at 230 VA Ca and ambient temperature 40 °C (104 °F) carbon table and table table and table table and table tab			
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Output Control 230 VAC Rated voltage U, 24 VDC Voltage range 2428 VDC incompleted in the properture of 2428 VDC incompleted in the properture of 25 °C (113 °F) 54.3 & at ambient temperature of 0°C (140 °F) 63 & at ambient temperature of 0°C (140 °F) 7			ambient temperature 25 °C (77 °F)
Rated voltage	Capacity factor		
Voltage range	Output		
Factory setting: 24.1 V SA	Rated voltage	U_{r}	24 V DC
Current S	Voltage range		
Sa. 4.3 A at at mibrient temperature 60 °C (140 °F)	Rated current	I_r	5 A
Ripple	Current		5 4.3 A at ambient temperature 60 °C (140 °F) 3.8 3.2 A at ambient temperature 70 °C (158 °F)
Retention time/hold time 35 ms at 120 V AC 35 ms at 230 V AC Overload behavior Continuous current at output voltage > 13 V DC Hiccup behaviour at output voltage > 13 V DC Hiccup behaviour at output voltage > 13 V DC Hiccup behaviour at output voltage > 13 V DC Hiccup behaviour at output voltage > 13 V DC A for 12 ms or 3 A ms continuous current Voltage limitation typ. 30.5 V DC max. 32 V DG Fault Indication output Connectin Output type rolay contact DC OK - contact is closed if the output voltage is > 90 % of the adjusted output voltage max. 60 V DC/0.3 A; 30 V DC/1 A; 30 V AC/0.5 A resistive load min. 1 mA at 5 V DC Galvanic isolation Input/Output SELV/PELV Indicator/sestitings Display elements LED green: status DC OK - LED lights up if the output voltage is > 90 % of the adjusted output voltage LED green: status DC OK - LED lights up if the output voltage is > 90 % of the adjusted output voltage Directive conformity Electromagnetic compatibility Directive conformity Electromagnetic compatibility Directive 2014/30/EU LEC/EN 61000-6-1, IEC/EN 61000-6-2, IEC/EN 61000-6-3, IEC/EN 61000-6-4, IEC/EN 61000-3-3 LOW voltage Directive 2014/30/EU Elec/EN 61000-3-3 LOW voltage Directive 2014/35/EU EN 61010-1 EO/EN 61000-3-3 LOW voltage Directive 2014/35/EU EN 61010-1 EO/EN 61000-3-3 LOW voltage Directive 2014/35/EU EN 61010-1 EO/EN 63000:2019 Conformity Degree of protection EN 60529 Shock resistance EN 60068-2-7 Wibration resistance EN 60068-2-7 Wibration resistance EN 60068-2-7 Wibration resistance Ambient conditions Ambient temperature 40 85 °C. (40 185 °F), see technical information 500rage temperature 40 85 °C. (40 185 °F) Relative humidity 5 95 %, noncondensing Shock resistance 40 g. 11 ms or 30 g. 6 ms Vibration resistance For experimental adurninum alloy, galvanized steel	Power		120 W
Sams at 230 V AC	Ripple		max. 50 mV _{pp}
Hiccup behaviour at output voltage < 13 V DC	Retention time/hold time		
Voltage limitation typ. 30.5 V DC max. 32 V DC Fault Indication output Connection terminals 13, 14 Contact loading max. 60 V DC/0.3 A; 30 V DC/1 A; 30 V AC/0.5 A resistive load min. 1 mA at 5 V DC Galvanic isolation SELV/PELV Imput/Output SELV/PELV Indicators/settings LED green: status DC OK - LED lights up if the output voltage is > 90 % of the adjusted output voltage of the output voltage is > 90 % of the adjusted output voltage of the output voltage is > 90 % of the adjusted output voltage of the output voltage is > 90 % of the adjusted output voltage of the output voltage is > 90 % of the adjusted output voltage of the output voltage is > 90 % of the adjusted output voltage output voltage output voltage is > 90 % of the adjusted output voltage output voltage output voltage is > 90 % of the adjusted output voltage output voltage output voltage is > 90 % of the adjusted output voltage output voltage output voltage is > 90 % of the adjusted output voltage output voltage is > 90 % of the adjusted output voltage output voltage output voltage is > 90 % of the adjusted output voltage output voltage is > 90 % of the adjusted output voltage output voltage is > 90 % of the adjusted output voltage is > 90 % of the adjusted output voltage is > 90 % of the adjusted output voltage is > 90 % of the adjusted output voltage is > 90 % of the adjusted output voltage is > 90 % of the adjusted output voltage is > 90 % of the adjusted output voltage is > 90 % of the adjusted output voltage is > 90 % of the adjusted output voltage is > 90 % of the adjusted output voltage is > 90 % of the adjusted output voltage is > 90 % of the adjusted output voltage is > 90 % of the adjusted output voltage is	Overload behavior		Hiccup behaviour at output voltage < 13 V DC
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Connection terminals 13, 14 Output type relay contact DC OK Contact loading max. 60 V DC/0.3 A; 30 V DC/1 A; 30 V AC/0.5 A resistive load min. 1 mA at 5 V DC Contact loading max. 60 V DC/0.3 A; 30 V DC/1 A; 30 V AC/0.5 A resistive load min. 1 mA at 5 V DC Contact loading Input/Output SELV/PELV Indicators/settings Display elements LED green: status DC OK - LED lights up if the output voltage is > 90 % of the adjusted output voltage contact settings Control elements potentiometer Configuration setting of the output voltage is > 90 % of the adjusted output voltage contact setting of the output voltage is > 90 % of the adjusted output voltage contact setting of the output voltage is > 90 % of the adjusted output voltage contact setting of the output voltage is > 90 % of the adjusted output voltage contact setting of the output voltage is > 90 % of the adjusted output voltage contact setting of the output voltage is > 90 % of the adjusted output voltage contact setting of the output voltage is > 90 % of the adjusted output voltage contact setting of the output voltage is > 90 % of the adjusted output voltage contact setting of the output voltage is > 90 % of the adjusted output voltage contact setting of the output voltage is > 90 % of the adjusted output voltage contact setting of the output voltage is > 90 % of the adjusted output voltage setting of the output voltage via potentiometer Directive conformity Electromagnetic compatibility Directive 2014/30/EU EN 61000-6-1, IEC/EN 61000-6-2, IEC/EN 61000-6-3, IEC/EN 61000-6-4, IEC/EN 61000-3-3 EC/EN 61000-3-2 EC/EN 61000-3-2 EC/EN 61000-6-1, IEC/EN 61000-6-2, IEC/EN 61000-6-3, IEC/EN 61000-6-4, IEC/EN 61000-6-2, IEC/EN 61000-6-3, IEC/EN 61000-6-4, IEC/EN 61000-3-3 EC/EN 61000-3-2 EC/EN 61000-6-1, IEC/EN 61000-6-2, IEC/EN 61000-6-3, IEC/EN 61000	Voltage limitation		
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Mechanical specifications Housing material aluminum alloy , galvanized steel			
Housing material aluminum alloy , galvanized steel			
			aluminum alloy , galvanized steel



Connection	
Input/Output	screw terminals conductor cross section: max. 6 mm ² (AWG 20-10) cable diameter: max. 2.8 mm, wire end ferrules included stripped insulation length: 7 mm tightening torque: max. 1 Nm
Relay contact output	spring terminals with push-in connection technology conductor cross section: max. 1.5 mm² (AWG 24-16) cable diameter: max. 1.6 mm, wire end ferrules included stripped insulation length: 7 mm
Mass	approx. 440 g
Dimensions	$32 \times 124 \times 102$ mm (W x H x D) , without DIN mounting rail
Mounting	on 35 mm DIN mounting rail acc. to EN 60715:2001
Data for application in connection with hazar	rdous areas
ATEX approval	
ATEX certificate	EPS 19 ATEX 1201 X
ATEX marking	
Directive conformity	
Directive 2014/34/EU	EN 60079-0:2018, EN 60079-7:2015+A1:2018, EN 60079-15:2010
International approvals	
UL approval	E350173, E223176
IECEx approval	
IECEx certificate	IECEx EPS 20.0058X
IECEx marking	Ex ec nC IIC T4 Gc
Standards	IEC 60079-0:2017, IEC 60079-7:2017, IEC 60079-15:2017
General information	
Supplementary information	Observe the certificates, declarations of conformity, instruction manuals, and manuals where applicable. For information see www.pepperl-fuchs.com.

Front view



Installation Conditions

Mount the device on the DIN mounting rail so that the input terminals are located on the bottom of the device.

This device is designed for convection cooling and does not require an external ventilator. Do not obstruct airflow. Do not cover the ventilation grid by more than 15 %, e. g. cable ducts.

If you load the device with more than 50 % of the rated power permanently keep the following mounting distances:

- 40 mm above
- 20 mm below
- 5 mm on the left and right side

Increase this distance to 15 mm if the adjacent device is a heat source, e. g. another power supply.

Accessories

STATE AND STATE OF THE STATE OF	IQC21-50 25pcs	Data carrier
	IQC21-F125	Data carrier
	V15L-G-2M-PUR-U	Female cordset single-ended M12 straight L-coded, 5-pin, PUR cable grey, UL approved
	V45-G-C5-GN1M-PUR- E1S-V45-G	Ethernet bus cable RJ45 to RJ45 PROFINET-coded, 4-pin, PUR cable green, Cat5e, shielded, UL approved, drag chain suitable
JI:	ICE2-8IOL-G65L-V1D	EtherNet/IP IO-Link master with 8 inputs/outputs
tan,	ICRL-U-5RJ45-DIN-NT	Ethernet unmanaged switch with 5 RJ45 ports and port alarm
	IQT1-F61-IO-V1	HF read/write station with IO-Link in accordance with ISO 15693
	NRB4-12GS40-E2-IO-V1	Inductive sensor
33	OMT550-R200-2EP-IO-V1	Distance sensor



Power Supply PS1000-A6-12.16

- 100 V AC to 240 V AC wide-range input
- Output 12 V DC, 16 A, 192 W, 1-phase
- Housing width 39 mm
- Efficiency up to 94.3 %
- Minimal inrush current surge
- Remote control for ON/OFF
- DC OK relay contact
- Suitable for Zone 2/Div. 2 mounting











Function

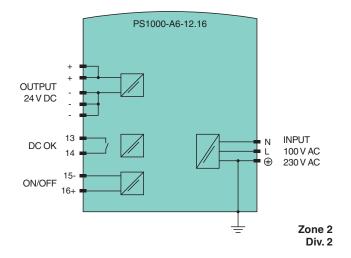
The device is used to supply field devices with 12 V DC and 16 A.

The device has a power reserve of 20 % included, which may even be used continuously at temperatures up to +45 °C. The output voltage can be adjusted via a potentiometer. The device status is indicated by an LED.

The device has a relay contact output for remote monitoring.

The device has a connection for switching off the device via a remote control. The device is mounted on a 35 mm DIN mounting rail according to EN 60715.

Connection



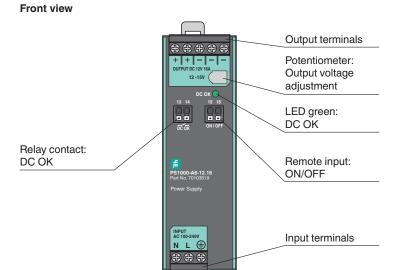
Technical Data

Release date: 2021-12-20 Date of issue: 2021-12-20 Filename: 70103519_eng.pdf

Electrical specifications	
Efficiency	92.8 % at 120 V AC 94.3 % at 230 V AC
Power dissipation	14.9 W at 120 V AC 11.6 W at 230 V AC
Input	
Current	1.74 A at 120 V AC 0.92 A at 230 V AC 1.9 A at 110 V DC for lower output currents see technical information
Inrush current	6 A peak at 120 V AC and ambient temperature 40 $^{\circ}$ C (104 $^{\circ}$ F) 9 A peak at 230 V AC and ambient temperature 40 $^{\circ}$ C (104 $^{\circ}$ F)

Technical Data		
Voltage		100 240 V AC (-15 %/+10 %), 50 60 Hz (±6 %) 110 150 V DC (±20 %)
Capacity factor		0.99 at 120 V AC 0.96 at 230 V AC
Remote control		terminals 15-, 16+ remote control for ON/OFF
Output		
Rated voltage	U_{r}	12 V DC
Voltage range		12 15 V DC factory setting: 12 V
Rated current	I _r	16 A
Current		19.2 15.4 A at ambient temperature < 45 °C (113 °F) 16 12.8 A at ambient temperature 60 °C (140 °F) 12 9.6 A at ambient temperature 70 °C (158 °F) linear power derating see technical information
Power		192 W
Ripple		max. 50 mV _{pp}
Retention time/hold time		50 ms at 120 V AC 50 ms at 230 V AC
Overload behavior		continuous current : output voltage > 6.5 V DC intermittent current : output voltage < 6.5 V DC
Short-circuit current		typ. 55 A for up to 12 ms, load impedance < 30 m Ω
Voltage limitation		typ. 18.2 V DC max. 19 V DC
Fault indication output		
Connection		terminals 13, 14
Output type		relay contact DC OK - contact is closed if the output voltage is > 90 $\%$ of the adjusted output voltage
Contact loading		max. 60 V DC/0.3 A ; 30 V DC/1 A ; 30 V AC/0.5 A resistive load min. 1 mA at 5 V DC
Galvanic isolation		
Input/Output		SELV/PELV
Indicators/settings		
Display elements		LED green: status DC OK - LED lights up if the output voltage is > 90 $\%$ of the adjusted output voltage
Control elements		potentiometer
Configuration		setting of the output voltage via potentiometer
Directive conformity		
Electromagnetic compatibility		
Directive 2014/30/EU		IEC/EN 61000-6-1 , IEC/EN 61000-6-2 , IEC/EN 61000-6-3 , IEC/EN 61000-6-4 , IEC/EN 61000-3-2 , IEC/EN 61000-3-3
Low voltage		
Directive 2014/35/EU		EN 61010-1
RoHS		
Directive 2011/65/EU (RoHS)		IEC/EN 63000:2019
Conformity		
Degree of protection		EN 60529
Shock resistance		EN 60068-2-27
Vibration resistance		EN 60068-2-6
Ambient conditions		
Ambient temperature		-25 70 °C (-13 158 °F) , see technical information
Storage temperature		-40 85 °C (-40 185 °F)
Relative humidity		5 95 %, noncondensing
Shock resistance		20 g , 11 ms or 30 g , 6 ms
Vibration resistance		$2 \dots 17.8 \text{ Hz}$: $\pm 1.6 \text{ mm}$, $17.8 \dots 500 \text{ Hz}$: 2 g
Mechanical specifications		
Housing material		aluminum alloy , galvanized steel
Degree of protection		IP20

Technical Data	
Connection	
Input/Output	screw terminals conductor cross section: max. 6 mm² (AWG 20-10) cable diameter: max. 2.8 mm, wire end ferrules included stripped insulation length: 7 mm tightening torque: max. 1 Nm
Relay contact output	spring terminals conductor cross section: max. 1.5 mm² (AWG 24-16) cable diameter: max. 1.6 mm, wire end ferrules included stripped insulation length: 7 mm
Remote control	spring terminals conductor cross section: max. 1.5 mm ² (AWG 24-16) cable diameter: max. 1.6 mm, wire end ferrules included stripped insulation length: 7 mm
Mass	approx. 600 g
Dimensions	$39 \times 124 \times 117$ mm (W x H x D) , without DIN mounting rail
Mounting	on 35 mm DIN mounting rail acc. to EN 60715:2001
Data for application in connection with hazard	lous areas
ATEX approval	
ATEX certificate	EPS 15 ATEX 1101 X
ATEX marking	
Directive conformity	
Directive 2014/34/EU	EN 60079-0:2012+A11:2013 , EN 60079-7:2015+A1:2018 , EN 60079-15:2010
International approvals	
UL approval	E223176
IECEx approval	
IECEx certificate	IECEx EPS 20.0055X
IECEx marking	Ex ec nC IIC T4 Gc
Standards	IEC 60079-0:2017, IEC 60079-7:2017, IEC 60079-15:2017
General information	
Supplementary information	Observe the certificates, declarations of conformity, instruction manuals, and manuals where applicable. For information see www.pepperl-fuchs.com.





Mount the device on the DIN mounting rail so that the input terminals are located on the bottom of the device.

This device is designed for convection cooling and does not require an external ventilator. Do not obstruct airflow. Do not cover the ventilation grid by more than 15 %, e. g. cable ducts.

If you load the device with more than 50 % of the rated power permanently keep the following mounting distances:

- 40 mm above
- 20 mm below
- 5 mm on the left and right side

Increase this distance to 15 mm if the adjacent device is a heat source, e. g. another power supply.

Configuration

The remote control input allows to switch off the device output with a signal switch or transistor. To switch off the device, connect pins 15 and 16 with a plug-in jumper. Pin 15 is related to the (-) output voltage.

With a plug-in jumper. Fill 15 is related to the (-) output voltage. The open circuit voltage between pin 15 and pin 16 can be up to 18 V. The maximum current in the remote OFF mode can be up to 2.5 mA. The output shutdown threshold is typically 5 V. The threshold for switching the output on is typically 9 V. If multiple devices are connected in parallel, pin 15 and pin 16 may also be connected in parallel. This allows all devices to be controlled by the same signal switch or transistor. Observe that the shutdown function is not a safety function.

Accessories



PS1000-D2-24.40.RM Redundancy Module



Power Supply PS1000-A6-24.10

- 100 V AC to 240 V AC wide-range input
- Output 24 V DC, 10 A, 240 W, 1-phase
- Housing width 39 mm
- Efficiency up to 95.2 %
- Minimal inrush current surge
- DC OK relay contact
- Suitable for Zone 2/Div. 2 mounting











Function

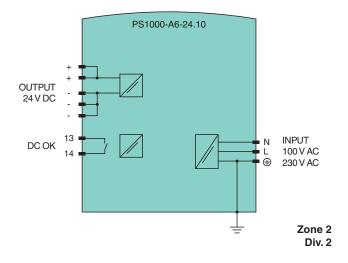
The device is used to supply field devices with 24 V DC and 10 A.

The device has a power reserve of 20 % included, which may even be used continuously at temperatures up to +45 °C. The output voltage can be adjusted via a potentiometer. The device status is indicated by an LED.

The device has a relay contact output for remote monitoring.

The device is mounted on a 35 mm DIN mounting rail according to EN 60715.

Connection



Technical Data

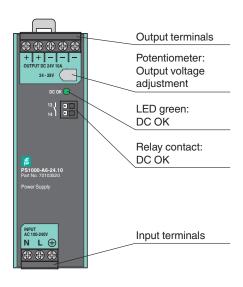
Electrical specifications	
Efficiency	93.6 % at 120 V AC 95.2 % at 230 V AC
Power dissipation	16.4 W at 120 V AC 12.1 W at 230 V AC
Input	
Voltage range	100 240 V AC (-15 %/+10 %), 50 60 Hz (±6 %) 110 150 V DC (±20 %)
Current	2.15 A at 120 V AC 1.13 A at 230 V AC 2.35 A at 110 V DC for lower output currents see technical information
Inrush current	6 A peak at 120 V AC and ambient temperature 40 °C (104 °F) 9 A peak at 230 V AC and ambient temperature 40 °C (104 °F)

Release date: 2021-12-20 Date of issue: 2021-12-20 Filename: 70103520_eng.pdf

Technical Data 0.99 at 120 V AC 0.97 at 230 V AC Capacity factor Output 24 V DC Rated voltage Voltage range 24 ... 28 V DC factory setting: 24.1 V Rated current 12 ... 10.3 A at ambient temperature < 45 °C (113 °F) 10 ... 8.6 A at ambient temperature 60 °C (140 °F) 7.5 ... 6.5 A at ambient temperature 70 °C (158 °F) Current linear power derating see technical information Power 240 W Ripple max. 50 mV pp Retention time/hold time 37 ms at 120 V AC 37 ms at 230 V AC Overload behavior continuous current at output voltage > 13 V DC Hiccup behaviour at output voltage < 13 V DC Short-circuit current typ. 30.5 A for up to 12 ms, load impedance < 45 m Ω max. 5 A_{rms} average continuous current, load impedance 50 mΩ Voltage limitation typ. 30.5 V DC max. 32 V DC Fault indication output Connection terminals 13, 14 Output type relay contact DC OK - contact is closed if the output voltage is > 90 % of the adjusted output voltage Contact loading max. 60 V DC/0.3 A; 30 V DC/1 A; 30 V AC/0.5 A resistive load min. 1 mA at 5 V DC **Galvanic** isolation SELV/PELV Input/Output Indicators/settings Display elements LED green: status DC OK - LED lights up if the output voltage is > 90 % of the adjusted output voltage Control elements Configuration setting of the output voltage via potentiometer **Directive conformity** Electromagnetic compatibility Directive 2014/30/EU IEC/EN 61000-6-1, IEC/EN 61000-6-2, IEC/EN 61000-6-3, IEC/EN 61000-6-4, IEC/EN 61000-3-2, IEC/EN 61000-3-3 Low voltage Directive 2014/35/EU EN 61010-1 Directive 2011/65/EU (RoHS) IEC/EN 63000:2019 Conformity EN 60529 Degree of protection Shock resistance EN 60068-2-27 Vibration resistance EN 60068-2-6 Ambient conditions Ambient temperature -25 ... 70 °C (-13 ... 158 °F) , see technical information Storage temperature -40 ... 85 °C (-40 ... 185 °F) Relative humidity 5 ... 95 %, noncondensing Shock resistance 20 g , 11 ms or 30 g , 6 ms Vibration resistance 2 ... 17.8 Hz: ± 1.6 mm, 17.8 ... 500 Hz: 2 g Mechanical specifications Housing material aluminum alloy, galvanized steel IP20 Degree of protection Connection

Technical Data		
Input/Output	screw terminals conductor cross section: max. 6 mm² (AWG 20-10) cable diameter: max. 2.8 mm, wire end ferrules included stripped insulation length: 7 mm tightening torque: max. 1 Nm	
Relay contact output	spring terminals with push-in connection technology conductor cross section: max. 1.5 mm² (AWG 24-16) cable diameter: max. 1.6 mm, wire end ferrules included stripped insulation length: 7 mm	
Mass	арргох. 600 g	
Dimensions	39 x 124 x 117 mm (W x H x D) , without DIN mounting rail	
Mounting	on 35 mm DIN mounting rail acc. to EN 60715:2001	
Data for application in connection with hazardous areas		
ATEX approval		
ATEX certificate	EPS 15 ATEX 1101 X	
ATEX marking		
Directive conformity		
Directive 2014/34/EU	EN 60079-0:2012+A11:2013 , EN 60079-7:2015+A1:2018 , EN 60079-15:2010	
International approvals		
UL approval	E350173, E223176	
IECEx approval		
IECEx certificate	IECEx EPS 20.0055X	
IECEx marking	Ex ec nC IIC T4 Gc	
Standards	IEC 60079-0:2017, IEC 60079-7:2017, IEC 60079-15:2017	
General information		
Supplementary information	Observe the certificates, declarations of conformity, instruction manuals, and manuals where applicable. For information see www.pepperl-fuchs.com.	

Front view



Installation Conditions

Mount the device on the DIN mounting rail so that the input terminals are located on the bottom of the device.

This device is designed for convection cooling and does not require an external ventilator. Do not obstruct airflow. Do not cover the ventilation grid by more than 15 %, e. g. cable ducts.



If you load the device with more than 50 % of the rated power permanently keep the following mounting distances: 40 mm above

- 20 mm below
- 5 mm on the left and right side

Increase this distance to 15 mm if the adjacent device is a heat source, e. g. another power supply.



Power Supply PS1000-A6-24.10.R

- 100 V AC to 240 V AC wide-range input
- Output 24 V DC, 10 A, 240 W, 1-phase
- Housing width 39 mm
- Built-in decoupling mosfet for 1+1 and N+1 redundancy
- Efficiency up to 94.7 %
- Minimal inrush current surge
- DC OK relay contact
- Current sharing for parallel use
- Suitable for Zone 2/Div. 2 mounting











Function

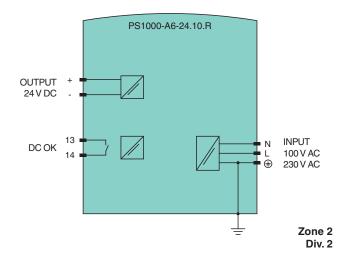
The device is used to supply field devices with 24 V DC and 10 A.

The device includes a decoupling MOSFET for building 1+1 or n+1 redundant power supply systems.

To achieve current sharing between power supplies connected in parallel, the device is permanently factory-set to "parallel use" operating mode. The device status is indicated by an LED.

The device has a relay contact output for remote monitoring. The device is mounted on a 35 mm DIN mounting rail according to EN 60715.

Connection



Technical Data

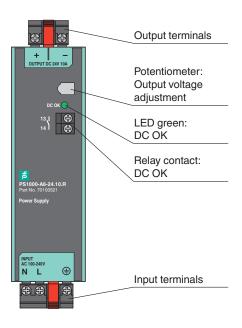
Electrical specifications	
Efficiency	93 % at 120 V AC 94.7 % at 230 V AC
Power dissipation	18.1 W at 120 V AC 13.4 W at 230 V AC
Input	
Current	2.17 A at 120 V AC 1.14 A at 230 V AC 2.35 A at 110 V DC for lower output currents see technical information
Inrush current	6 A peak at 120 V AC and ambient temperature 40 °C (104 °F) 9 A peak at 230 V AC and ambient temperature 40 °C (104 °F)



Voltage	100 240 V AC (-15 %/+10 %), 50 60 Hz (±6 %) 110 150 V DC (±20 %)
Capacity factor	0.99 at 120 V AC 0.97 at 230 V AC
Output	
Rated voltage	U _r 24 V DC
Voltage range	23.8 25.2 V DC factory setting: 24.1 V
Rated current	I _r 10 A
Current	12 A at ambient temperature < 45 °C (113 °F) 10 A at ambient temperature 60 °C (140 °F) 7.5 A at ambient temperature 70 °C (158 °F) linear power derating see technical information
Power	240 W
Ripple	max. 50 mV $_{pp}$
Retention time/hold time	37 ms at 120 V AC 37 ms at 230 V AC
Overload behavior	continuous current : output voltage > 13 V DC intermittent current : output voltage < 13 V DC
Short-circuit current	typ. 14 A , intermitted current peak value for typ. 2 s, load impedance < 10 m $\!\Omega$
Voltage limitation	typ. 30.5 V DC max. 32 V DC
Fault indication output	
Connection	terminals 13, 14
Output type	relay contact DC OK - contact is closed if the output voltage is > 90 $\%$ of the adjusted output voltage
Contact loading	max. 60 V DC/0.3 A ; 30 V DC/1 A ; 30 V AC/0.5 A resistive load min. 1 mA at 5 V DC
Galvanic isolation	
Input/Output	SELV/PELV
ndicators/settings	
Display elements	LED green: status DC OK - LED lights up if the output voltage is > 90 $\%$ of the adjusted output voltage
Directive conformity	
Electromagnetic compatibility	
Directive 2014/30/EU	IEC/EN 61000-6-1 , IEC/EN 61000-6-2 , IEC/EN 61000-6-3 , IEC/EN 61000-6-4 , IEC/EN 61000-3-2 , IEC/EN 61000-3-3
Low voltage	
Directive 2014/35/EU	EN 61010-1
RoHS	
Directive 2011/65/EU (RoHS)	IEC/EN 63000:2019
Conformity	
Degree of protection	EN 60529
Shock resistance	EN 60068-2-27
Vibration resistance	EN 60068-2-6
Ambient conditions	
Ambient temperature	-25 70 °C (-13 158 °F) , see technical information
Storage temperature	-40 85 °C (-40 185 °F)
Relative humidity	5 95 %, noncondensing
Shock resistance	20 g , 11 ms or 30 g , 6 ms
Vibration resistance	2 17.8 Hz : ± 1.6 mm , 17.8 500 Hz : 2 g
Mechanical specifications	, , , , , , , , , , , , , , , , , , ,
Housing material	aluminum alloy , galvanized steel
Degree of protection	IP20
· '	

Technical Data	
Input/Output	plug-in connector with screw terminals conductor cross section: max. 4 mm² (AWG 20-12) cable diameter: max. 2.4 mm, wire end ferrules included stripped insulation length: 7 mm tightening torque: max. 0.5 Nm
Relay contact output	plug-in connector with screw terminals conductor cross section: max. 1.5 mm² (AWG 26-14) cable diameter: max. 1.8 mm, wire end ferrules included stripped insulation length: 6 mm tightening torque: max. 0.8 Nm
Mass	approx. 600 g
Dimensions	39x124x117 mm (W x H x D) , without plugs and without DIN mounting rail
Mounting	on 35 mm DIN mounting rail acc. to EN 60715:2001
Data for application in connection with hazarde	ous areas
ATEX approval	
ATEX certificate	EPS 15 ATEX 1101 X
ATEX marking	
Directive conformity	
Directive 2014/34/EU	EN 60079-0:2012+A11:2013, EN 60079-7:2015+A1:2018, EN 60079-15:2010
International approvals	
UL approval	E350173, E223176
IECEx approval	
IECEx certificate	IECEx EPS 20.0055X
IECEx marking	Ex ec nC IIC T4 Gc
Standards	IEC 60079-0:2017, IEC 60079-7:2017, IEC 60079-15:2017
General information	
Supplementary information	Observe the certificates, declarations of conformity, instruction manuals, and manuals where applicable. For information see www.pepperl-fuchs.com.

Front view



Installation Conditions

Mount the device on the DIN mounting rail so that the input terminals are located on the bottom of the device.



This device is designed for convection cooling and does not require an external ventilator. Do not obstruct airflow. Do not cover the ventilation grid by more than 15 %, e. g. cable ducts.

If you load the device with more than 50 % of the rated power permanently keep the following mounting distances: • 40 mm above

- 20 mm below
- 5 mm on the left and right side

Increase this distance to 15 mm if the adjacent device is a heat source, e. g. another power supply.



Power Supply PS1000-A6-48.5

- 100 V AC to 240 V AC wide-range input
- Output 48 V DC, 5.4 A, 260 W, 1-phase
- Housing width 39 mm
- Efficiency up to 95.5 %
- Minimal inrush current surge
- DC OK relay contact
- Suitable for Zone 2/Div. 2 mounting











Function

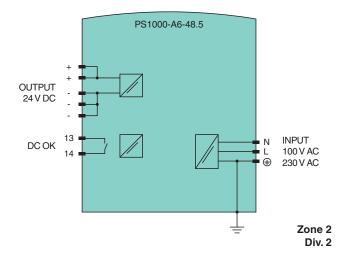
The device is used to supply field devices with 48 V DC and 5.4 A.

The device has a power reserve of 20 % included, which may even be used continuously at temperatures up to +45 °C. The output voltage can be adjusted via a potentiometer. The device status is indicated by an LED.

The device has a relay contact output for remote monitoring.

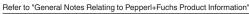
The device is mounted on a 35 mm DIN mounting rail according to EN 60715.

Connection



Technical Data

Electrical specifications	
Efficiency	93.8 % at 120 V AC 95.5 % at 230 V AC
Power dissipation	17.2 W at 120 V AC 12.3 W at 230 V AC
Input	
Current	2.32 A at 120 V AC 1.2 A at 230 V AC 2.51 A at 110 V DC for lower output currents see technical information
Inrush current	6 A peak at 120 V AC and ambient temperature 40 $^{\circ}$ C (104 $^{\circ}$ F) 9 A peak at 230 V AC and ambient temperature 40 $^{\circ}$ C (104 $^{\circ}$ F)
Voltage	100 240 V AC (-10 %/+10 %), 50 60 Hz (±6 %) 110 150 V DC (±20 %)

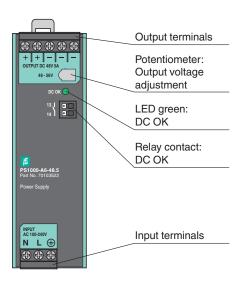


Release date: 2021-12-20 Date of issue: 2021-12-20 Filename: 70103522_eng.pdf

Technical Data		
Capacity factor		0.99 at 120 V AC
Output		0.98 at 230 V AC
Rated voltage	Ur	48 V DC
Voltage range	O _r	48 56 V DC
r onage range		factory setting: 48 V
Rated current	I _r	5 A
Current		6 5.2 A at ambient temperature < 45 °C (113 °F) 5.4 4.6 A at ambient temperature 60 °C (140 °F) 4 3.4 A at ambient temperature 70 °C (158 °F) linear power derating see technical information
Power		260 W
Ripple		max. 50 mV _{pp}
Retention time/hold time		34 ms at 120 V AC 34 ms at 230 V AC
Overload behavior		continuous current : output voltage > 26 V DC intermittent current : output voltage < 26 V DC
Short-circuit current		typ. 16 A for up to 12 ms, load impedance $< 90 \text{ m}\Omega$
Voltage limitation		typ. 58.5 V DC max. 60 V DC
Fault indication output		
Connection		terminals 13, 14
Output type		relay contact DC OK - contact is closed if the output voltage is > 90 $\%$ of the adjusted output voltage
Contact loading		max. 60 V DC/0.3 A; 30 V DC/1 A; 30 V AC/0.5 A resistive load min. 1 mA at 5 V DC
Galvanic isolation		
Input/Output		SELV/PELV
Indicators/settings		
Display elements		LED green: status DC OK - LED lights up if the output voltage is > 90 % of the adjusted output voltage
Control elements		potentiometer
Configuration		setting of the output voltage via potentiometer
Directive conformity		
Electromagnetic compatibility		
Directive 2014/30/EU		IEC/EN 61000-6-1 , IEC/EN 61000-6-2 , IEC/EN 61000-6-3 , IEC/EN 61000-6-4 , IEC/EN 61000-3-2 , IEC/EN 61000-3-3
Low voltage		
Directive 2014/35/EU		EN 61010-1
RoHS		
Directive 2011/65/EU (RoHS)		IEC/EN 63000:2019
Conformity		
Degree of protection		EN 60529
Shock resistance		EN 60068-2-27
Vibration resistance		EN 60068-2-6
Ambient conditions		
Ambient temperature		-25 70 °C (-13 158 °F) , see technical information
Storage temperature		-40 85 °C (-40 185 °F)
Relative humidity		5 95 %, noncondensing
Shock resistance		20 g , 11 ms or 30 g , 6 ms
Vibration resistance		2 17.8 Hz : ± 1.6 mm , 17.8 500 Hz : 2 g
Mechanical specifications		
Housing material		aluminum alloy , galvanized steel
Degree of protection		IP20
Connection		

Technical Data		
Input/Output	screw terminals conductor cross section: max. 6 mm² (AWG 20-10) cable diameter: max. 2.8 mm, wire end ferrules included stripped insulation length: 7 mm tightening torque: max. 1 Nm	
Relay contact output	spring terminals with push-in connection technology conductor cross section: max. 1.5 mm² (AWG 24-16) cable diameter: max. 1.6 mm, wire end ferrules included stripped insulation length: 7 mm	
Mass	approx. 600 g	
Dimensions	$39 \times 124 \times 117 \text{ mm } (W \times H \times D)$, without DIN mounting rail	
Mounting	on 35 mm DIN mounting rail acc. to EN 60715:2001	
Data for application in connection with hazar	dous areas	
ATEX approval		
ATEX certificate	EPS 15 ATEX 1101 X	
ATEX marking		
Directive conformity		
Directive 2014/34/EU	EN 60079-0:2012+A11:2013 , EN 60079-7:2015+A1:2018 , EN 60079-15:2010	
International approvals		
UL approval	E350173, E223176	
IECEx approval		
IECEx certificate	IECEx EPS 20.0055X	
IECEx marking	Ex ec nC IIC T4 Gc	
Standards	IEC 60079-0:2017, IEC 60079-7:2017, IEC 60079-15:2017	
General information		
Supplementary information	Observe the certificates, declarations of conformity, instruction manuals, and manuals where applicable. For information see www.pepperl-fuchs.com.	

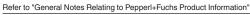
Front view



Installation Conditions

Mount the device on the DIN mounting rail so that the input terminals are located on the bottom of the device.

This device is designed for convection cooling and does not require an external ventilator. Do not obstruct airflow. Do not cover the ventilation grid by more than 15 %, e. g. cable ducts.



If you load the device with more than 50 % of the rated power permanently keep the following mounting distances: 40 mm above

- 20 mm below
- 5 mm on the left and right side

Increase this distance to 15 mm if the adjacent device is a heat source, e. g. another power supply.



Power Supply PS1000-A6-24.20

- 100 V AC to 240 V AC wide-range input
- Output 24 V DC, 20 A, 480 W, 1-phase
- Housing width 48 mm
- Efficiency up to 95.6 %
- Minimal inrush current surge
- DC OK relay contact
- Current sharing for parallel use
- Suitable for Zone 2/Div. 2 mounting











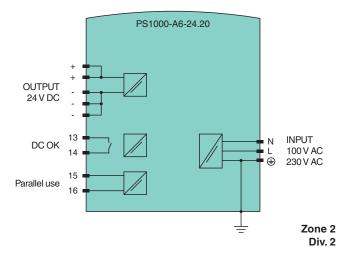
Function

The device is used to supply field devices with 24 V DC and 20 A. It is possible to select between the operating modes "parallel use" and "single use". Plug in the plug-in jumper to set the operating mode "parallel use". Do not plug in the plug-in jumper to set the operating mode "single use". The device status is indicated by an LED. The device has a relay contact output for remote monitoring. The device is mounted on a 35 mm DIN mounting rail according to EN 60715.

Application

Link the two terminal poles when power supplies are connected in parallel. In order to achieve a sharing of the load current between the individual power supplies, the "parallel use" regulates the output voltage in such a manner that the voltage at no load is approx. 4 % higher than at nomina load.

Connection



Technical Data

Electrical specifications	
Efficiency	94.2 % at 120 V AC 95.6 % at 230 V AC
Power dissipation	29.6 W at 120 V AC 22.1 W at 230 V AC

Refer to "General Notes Relating to Pepperl+Fuchs Product Information"



Release date: 2021-12-20 Date of issue: 2021-12-20 Filename: 70103523_eng.pdf

Technical Data

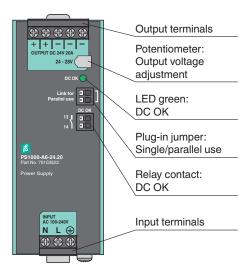
Technical Data		
Input		
Current		4.26 A at 120 V AC 2.23 A at 230 V AC 4.64 A at 110 V DC for lower output currents see technical information
Inrush current		10 A peak at 120 V AC, temperature independent 4.5 A peak at 230 V AC, temperature independent
Voltage		100 240 V AC (-15 %/+10 %), 50 60 Hz (±6 %) 110 150 V DC (±20 %)
Capacity factor		0.99 at 120 V AC 0.98 at 230 V AC
Output		
Rated voltage	U_{r}	24 V DC
Voltage range		24 28 V DC factory setting: 24.1 V
Rated current	I_r	20 A
Current		24 20.6 A at ambient temperature < 45 °C (113 °F) 20 17.1 A at ambient temperature 60 °C (140 °F) 15 13 A at ambient temperature 70 °C (158 °F) linear power derating see technical information
Power		480 W
Ripple		max. 50 mV $_{\rm pp}$
Retention time/hold time		32 ms at 120 V AC 32 ms at 230 V AC
Overload behavior		continuous current : output voltage > 13 V DC intermittent current : output voltage < 13 V DC
Short-circuit current		typ. 29 A intermitted current peak value for typ. 2 s
Voltage limitation		typ. 30.5 V DC max. 32 V DC
Fault indication output		
Connection		terminals 13, 14
Output type		relay contact DC OK - contact is closed if the output voltage is > 90 $\%$ of the adjusted output voltage
Contact loading		max. 60 V DC/0.3 A; 30 V DC/1 A; 30 V AC/0.5 A resistive load min. 1 mA at 5 V DC
Galvanic isolation		
Input/Output		SELV/PELV
Indicators/settings		
Display elements		LED green: status DC OK - LED lights up if the output voltage is > 90 % of the adjusted output voltage
Control elements		potentiometer , plug-in jumper
Configuration		setting of the output voltage via potentiometer setting of the operating mode - plug-in jumper plugged in: "parallel use" operating mode - plug-in jumper not plugged in: "single use" operating mode
Directive conformity		
Electromagnetic compatibility		
Directive 2014/30/EU		IEC/EN 61000-6-1 , IEC/EN 61000-6-2 , IEC/EN 61000-6-3 , IEC/EN 61000-6-4 , IEC/EN 61000-3-2 , IEC/EN 61000-3-3
Low voltage		
Directive 2014/35/EU		EN 61010-1
RoHS		
Directive 2011/65/EU (RoHS)		IEC/EN 63000:2019
Conformity		
Degree of protection		EN 60529
Shock resistance		EN 60068-2-27
Vibration resistance		EN 60068-2-6
Ambient conditions		
Ambient temperature		-25 70 °C (-13 158 °F) , see technical information
Storage temperature		-40 85 °C (-40 185 °F)

Technical Data Relative humidity 5 ... 95 %, noncondensing Shock resistance 20 g, 11 ms or 30 g, 6 ms Vibration resistance 2 ... 17.8 Hz: ± 1.6 mm, 17.8 ... 500 Hz: 2 g Mechanical specifications Housing material aluminum alloy, galvanized steel Degree of protection IP20 Connection Input/Output screw terminals conductor cross section: max. 6 mm2 (AWG 20-10) cable diameter: max. 2.8 mm, wire end ferrules included stripped insulation length: 7 mm tightening torque: max. 1 Nm spring terminals with push-in connection technology conductor cross section: max. 1.5 mm² (AWG 24-16) cable diameter: max. 1.6 mm, wire end ferrules included Relay contact output stripped insulation length: 7 mm Mass approx. 830 g **Dimensions** 48 x 124 x 127 mm, without plugs and without DIN mounting rail Mounting on 35 mm DIN mounting rail acc. to EN 60715:2001 Data for application in connection with hazardous areas ATEX approval ATEX certificate EPS 17 ATEX 1 089 X ATEX marking Directive conformity Directive 2014/34/EU EN 60079-0:2012+A11:2013, EN 60079-7:2015, EN 60079-15:2010 International approvals **UL** approval E350173, E223176 IECEx approval IECEx certificate IECEx EPS 20.0056X IECEx marking Ex ec nC IIC T4 Gc IEC 60079-0:2011 , IEC 60079-7:2015 , IEC 60079-15:2010 Standards **General information** Supplementary information Observe the certificates, declarations of conformity, instruction manuals, and manuals



where applicable. For information see www.pepperl-fuchs.com.

Front view



Installation Conditions

Mount the device on the DIN mounting rail so that the input terminals are located on the bottom of the device.

This device is designed for convection cooling and does not require an external ventilator. Do not obstruct airflow. Do not cover the ventilation grid by more than 15 %, e. g. cable ducts.

If you load the device with more than 50 % of the rated power permanently keep the following mounting distances:

- 40 mm above
- 20 mm below
- 5 mm on the left and right side

Increase this distance to 15 mm if the adjacent device is a heat source, e. g. another power supply.



Power Supply PS1000-A6-24.20.R

- 100 V AC to 240 V AC wide-range input
- Output 24 V DC, 20 A, 480 W, 1-phase
- Housing width 48 mm
- Built-in decoupling mosfet for 1+1 and N+1 redundancy
- Efficiency up to 95.2 %
- Minimal inrush current surge
- DC OK relay contact
- Current sharing for parallel use
- Suitable for Zone 2/Div. 2 mounting











Function

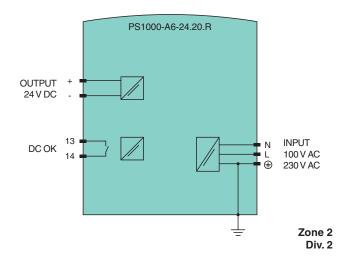
The device is used to supply field devices with 24 V DC and 20 A.

The device includes a decoupling MOSFET for building 1+1 or n+1 redundant power supply systems.

To achieve current sharing between power supplies connected in parallel, the device is permanently factory-set to "parallel use" operating mode. The device status is indicated by an LED.

The device has a relay contact output for remote monitoring. The device is mounted on a 35 mm DIN mounting rail according to EN 60715.

Connection



Technical Data

Release date: 2021-12-20 Date of issue: 2021-12-20 Filename: 70103524_eng.pdf

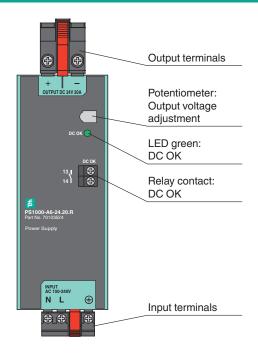
Electrical specifications	
Efficiency	93.8 % at 120 V AC 95.2 % at 230 V AC
Power dissipation	31.7 W at 120 V AC 24.2 W at 230 V AC
Input	
Current	4.28 A at 120 V AC 2.25 A at 230 V AC 4.64 A at 110 V DC for lower output currents see technical information
Inrush current	10 A peak at 120 V AC, temperature independent 4.5 A peak at 230 V AC, temperature independent



Technical Data		
W 6		400 040 145 04 40 01 50 00 14 (004)
Voltage		100 240 V AC (-15 %/+10 %), 50 60 Hz (±6 %) 110 150 V DC (±20 %)
Capacity factor		0.99 at 120 V AC 0.98 at 230 V AC
Output		
Rated voltage	U_{r}	24 V DC
Voltage range		23.8 25.2 V DC factory setting: 24.1 V
Rated current	l _r	20 A
Current		24 A at ambient temperature < 45 °C (113 °F) 20 A at ambient temperature 60 °C (140 °F) 15 A at ambient temperature 70 °C (158 °F) linear power derating see technical information
Power		480 W
Ripple		max. 100 mV_{pp}
Retention time/hold time		32 ms at 120 V AC 32 ms at 230 V AC
Overload behavior		continuous current : output voltage > 13 V DC intermittent current : output voltage < 13 V DC
Short-circuit current		typ. 29 A , intermitted current peak value for typ. 2 s
Voltage limitation		typ. 30.5 V DC max. 32 V DC
Fault indication output		
Connection		terminals 13, 14
Output type		relay contact DC OK - contact is closed if the output voltage is > 90 $\%$ of the adjusted output voltage
Contact loading		max. 60 V DC/0.3 A ; 30 V DC/1 A ; 30 V AC/0.5 A resistive load min. 1 mA at 5 V DC
Galvanic isolation		
Input/Output		SELV/PELV
Indicators/settings		
Display elements		LED green: status DC OK - LED lights up if the output voltage is > 90 $\%$ of the adjusted output voltage
Directive conformity		
Electromagnetic compatibility		
Directive 2014/30/EU		IEC/EN 61000-6-1 , IEC/EN 61000-6-2 , IEC/EN 61000-6-3 , IEC/EN 61000-6-4 , IEC/EN 61000-3-2 , IEC/EN 61000-3-3
Low voltage		
Directive 2014/35/EU		EN 61010-1
RoHS		
Directive 2011/65/EU (RoHS)		IEC/EN 63000:2019
Conformity		
Degree of protection		EN 60529
Shock resistance		EN 60068-2-27
Vibration resistance		EN 60068-2-6
Ambient conditions		
Ambient temperature		-40 70 °C (-40 158 °F) , see technical information
Storage temperature		-40 85 °C (-40 185 °F)
Relative humidity		5 95 %, noncondensing
Shock resistance		20 g , 11 ms or 30 g , 6 ms
Vibration resistance		2 17.8 Hz : ± 1.6 mm , 17.8 500 Hz : 2 g
Mechanical specifications		
Housing material		aluminum alloy , galvanized steel
Degree of protection		IP20
Connection		

Technical Data		
Input	plug-in connector with screw terminals conductor cross section: max. 4 mm² (AWG 20-12) cable diameter: max. 2.4 mm, wire end ferrules included stripped insulation length: 7 mm tightening torque: max. 0.5 Nm	
Output	plug-in connector with screw terminals conductor cross section: max. 6 mm² (AWG 24-10) cable diameter: max. 3.2 mm, wire end ferrules included stripped insulation length: 12 mm tightening torque: max. 0.6 Nm	
Relay contact output	plug-in connector with screw terminals conductor cross section: max. 1.5 mm² (AWG 26-14) cable diameter: max. 1.8 mm, wire end ferrules included stripped insulation length: 6 mm tightening torque: max. 0.8 Nm	
Mass	approx. 850 g	
Dimensions	48 x 124 x 127 mm (W x H x D) , without plugs and without DIN mounting rail	
Mounting	on 35 mm DIN mounting rail acc. to EN 60715:2001	
Data for application in connection with hazardous areas		
ATEX approval		
ATEX certificate	EPS 17 ATEX 1 089 X	
ATEX marking		
Directive conformity		
Directive 2014/34/EU	EN 60079-0:2012+A11:2013 , EN 60079-7:2015 , EN 60079-15:2010	
International approvals		
UL approval	E350173, E223176	
IECEx approval		
IECEx certificate	IECEx EPS 20.0056X	
IECEx marking	Ex ec nC IIC T4 Gc	
Standards	IEC 60079-0:2011 , IEC 60079-7:2015 , IEC 60079-15:2010	
General information		
Supplementary information	Observe the certificates, declarations of conformity, instruction manuals, and manuals where applicable. For information see www.pepperl-fuchs.com.	

Front view



Mount the device on the DIN mounting rail so that the input terminals are located on the bottom of the device.

This device is designed for convection cooling and does not require an external ventilator. Do not obstruct airflow. Do not cover the ventilation grid by more than 15 %, e. g. cable ducts.

If you load the device with more than 50 % of the rated power permanently keep the following mounting distances:

- 40 mm above
- 20 mm below
- 5 mm on the left and right side

Increase this distance to 15 mm if the adjacent device is a heat source, e. g. another power supply.



Power Supply PS1000-A9-24.40

- 380 V AC to 480 V AC wide-range inputs
- Output 24 V DC, 40 A, 960 W, 3-phase
- Housing width 110 mm
- Efficiency up to 95.3 %
- Minimal inrush current surge
- Shutdown input
- Remote control for ON/OFF
- DC OK relay contact
- Current sharing for parallel use



Function

The device is used to supply field devices with 24 V DC and 40 A.

The device has a large power reserve of 150 % for up to 4 s to support the starting of heavy loads such as DC motors or capacitive loads.

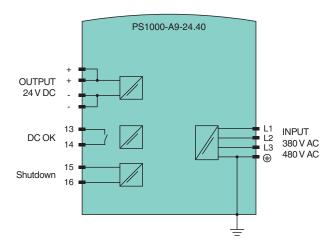
The output voltage can be adjusted via a potentiometer. Device status and overload are indicated by LEDs.

The device has a relay contact output for remote monitoring.
The device has a connection for switching off the device via a switch or an external voltage.
The device is mounted on a 35 mm DIN mounting rail according to EN 60715.

Application

Link the two terminal poles when power supplies are connected in parallel. In order to achieve a sharing of the load current between the individual power supplies, the "parallel use" regulates the output voltage in such a manner that the voltage at no load is approx. 4 % higher than at nomina load.

Connection



Technical Data

Electrical specifications	
Efficiency	95.3 % at 3 x 400 V AC 95.2 % at 3 x 480 V AC
Power dissipation	47.3 W at 3 x 400 V AC 48.4 W at 3 x 480 V AC

Refer to "General Notes Relating to Pepperl+Fuchs Product Information"

Technical Data Input Current 1.65 A at 3 x 400 V AC 1.35 A at 3 x 480 V AC for lower output currents see technical information 4.5~A peak at 3 x 400 V AC, temperature-independent 4.5~A peak at 3 x 480 V AC , temperature-independent Inrush current Voltage 3 x 380 ... 480 V AC (-15 %/+20 %), 50 ... 60 Hz (±6 %) 0.88 at 3 x 400 V AC Capacity factor 0.9 at 3 x 480 V AC terminals 15, 16 Remote control remote control for ON/OFF and shutdown input Output Rated voltage U_r 24 V DC Voltage range 24 ... 28 V DC factory setting: 24.1 V Rated current I_r Current continuous: 40 ... 34.3 A short-term up to 4 s: 60 ... 51.5 A linear power derating see technical information Power 960 W max. 100 mV pp Ripple 25 ms at 3 x 400 V AC Retention time/hold time 25 ms at 3 x 480 V AC Overload behavior constant current mode Short-circuit current typ. 46 A continuous, load impedance $< 10 \text{ m}\Omega$ Voltage limitation typ. 30.5 V DC max. 32 V DC Fault indication output terminals 13, 14 Connection Output type relay contact DC OK - contact is closed if the output voltage is > 90 % of the adjusted output voltage Contact loading max. 60 V DC/0.3 A; 30 V DC/1 A; 30 V AC/0.5 A resistive load min. 1 mA at 5 V DC **Galvanic** isolation SELV/PELV Input/Output Indicators/settings Display elements LED green: status DC OK LED lights up if the output voltage is > 90 % of the adjusted output voltage LED red: overload - LED lights up if the output voltage is < 90 % of the adjusted output voltage or in case of short circuit - flashes if the shutdown has been activated or if the device has shut down due to overtemperature Control elements potentiometer, plug-in jumper Configuration setting of the output voltage via potentiometer setting of the operating mode - plug-in jumper plugged in: "parallel use" operating mode - plug-in jumper not plugged in: "single use" operating mode setting of the shutdown input: plug-in jumper plugged in: device switches off Directive conformity Electromagnetic compatibility Directive 2014/30/EU IEC/EN 61000-6-1, IEC/EN 61000-6-2, IEC/EN 61000-6-3, IEC/EN 61000-6-4, IEC/EN 61000-3-2, IEC/EN 61000-3-3 Low voltage Directive 2014/35/EU EN 61010-1 IEC/EN 63000:2019 Directive 2011/65/EU (RoHS)

Conformity

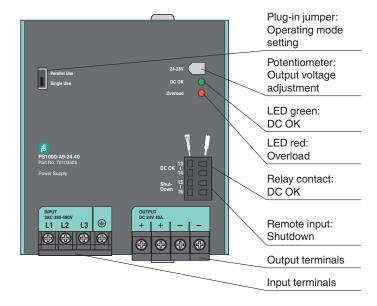
Degree of protection

EN 60529

Technical Data Shock resistance EN 60068-2-27 EN 60068-2-6 Vibration resistance **Ambient conditions** -25 ... 70 °C (-13 ... 158 °F) , see technical information Ambient temperature Storage temperature -40 ... 85 °C (-40 ... 185 °F) Relative humidity 5 ... 95 %, noncondensing $15\,g$, $6\,ms$ or $10\,g$, $11\,ms$ Shock resistance 2 ... 17.8 Hz: ± 1.6 mm, 17.8 ... 500 Hz: 1 g Vibration resistance Mechanical specifications Housing material aluminum alloy, galvanized steel Degree of protection IP20 Connection Input screw terminals conductor cross section: max. 6 mm² (AWG 20-10) cable diameter: max. 2.8 mm, wire end ferrules included stripped insulation length: 7 mm tightening torque: max. 1 Nm Output screw terminals conductor cross section: max. 16 mm² (AWG 22-8) cable diameter: max. 5.2 mm, wire end ferrules included stripped insulation length: 12 mm tightening torque: max. 2.3 Nm Relay contact output spring terminals conductor cross section: max. 1.5 mm² (AWG 24-16) cable diameter: max. 1.6 mm, wire end ferrules included stripped insulation length: 7 mm Remote control/shutdown input spring terminals conductor cross section: max. 1.5 mm² (AWG 24-16) cable diameter: max. 1.6 mm, wire end ferrules included stripped insulation length: 7 mm Mass approx. 1500 g 110 x 124 x 127 mm (W x H x D), without DIN mounting rail **Dimensions** Mounting on 35 mm DIN mounting rail acc. to EN 60715:2001 International approvals **UL** approval E223176 **General information** Supplementary information Observe the certificates, declarations of conformity, instruction manuals, and manuals

where applicable. For information see www.pepperl-fuchs.com.

Front view



Installation Conditions

Mount the device on the DIN mounting rail so that the input terminals are located on the bottom of the device.

This device is designed for convection cooling and does not require an external ventilator. Do not obstruct airflow. Do not cover the ventilation grid by more than 15 %, e. g. cable ducts.

If you load the device with more than 50 % of the rated power permanently keep the following mounting distances:

- 40 mm above
- 20 mm below
- 5 mm on the left and right side

Increase this distance to 15 mm if the adjacent device is a heat source, e. g. another power supply.

Indication

Mode of operation	Red LED overload	Green LED status DC OK	Relay contact DC OK
Normal operation	OFF	ON	closed
Overload (V _{out} < 0 %)	ON	OFF	open
Output short circuit	ON	OFF	open
Temperature shutdown	flashing	OFF	open
Active shutdown input	flashing	OFF	open
No input power	OFF	OFF	open