



## Power supply K24-STR-24..30VDC-10A

- 8 ... 10 A output load
- 230/115 V AC supply voltage
- Sustained short-circuit proof, overload-proof and open-circuit proof
- 24 ... 30 V DC output voltage, can be regulated
- LED operating display
- LED output overload indicator
- SELV
- Suitable for AS-Interface power supply in gateway-integrated data decoupling

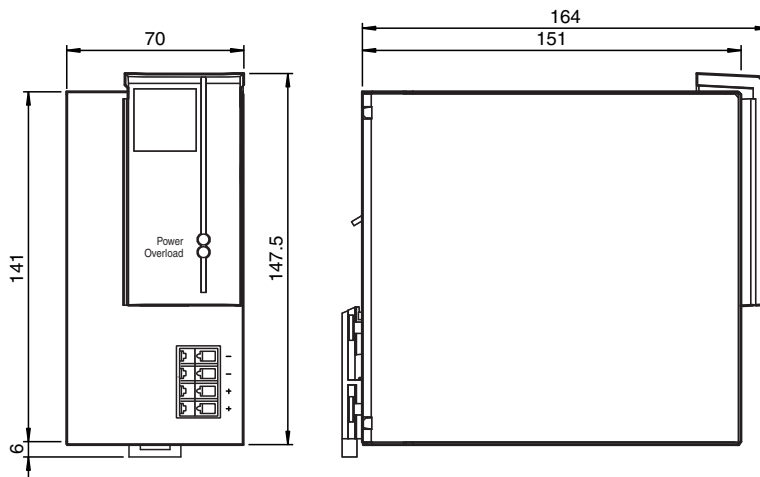
Power supply, 24 to 30 V DC, 10 A



### Function

The slim-line power pack provides a direct voltage in an even larger adjustable output voltage range of 23 ... 30 V DC, while optimizing the space available in the control cabinet. The current limit can be adjusted via an internal potentiometer. In addition to an LED showing the operational status (power), a red LED (overload) signals overloads on the output side. The connecting leads on the input side are safely covered with the plastic cover after installation. The device features a convenient DIN rail fastening.

### Dimensions



### Technical Data

#### General specifications

UL File Number E223176

#### Functional safety related parameters

MTTF<sub>d</sub> 40 a

Mission Time (T<sub>M</sub>) 10 a

Diagnostic Coverage (DC) 0 %

#### Indicators/operating means

LED Overload Red LED lights up for overload, flashes for hiccup mode

LED PWR LED green

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

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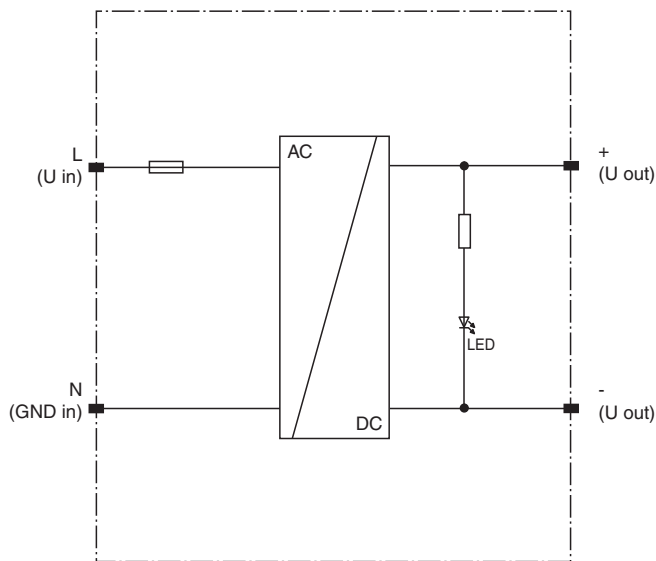
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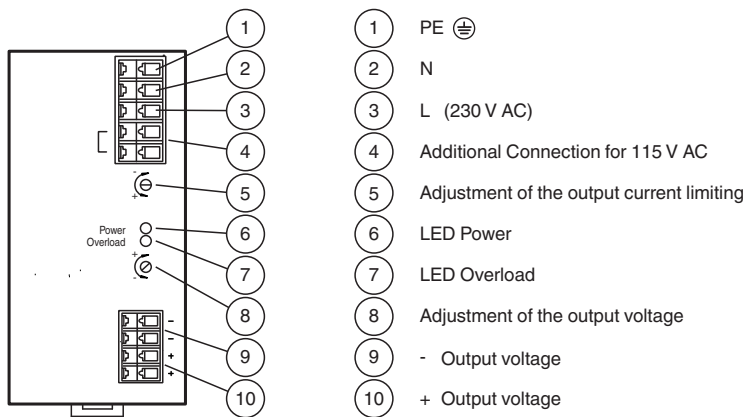
## Technical Data

Potentiometer	Top: Output current limitation (covered by a dummy plug) Bottom: Output voltage adjustment	
<b>Electrical specifications</b>		
Fusing	6.3 AT	
Capacity factor	approx. 0.6 (Depending on input voltage)	
Rated operating voltage	U <sub>e</sub>	115/230 V AC (for 115 V range, jumper) Range: 93 to 132 V AC/187 to 265 V AC
Rated operating current	I <sub>e</sub>	4.0 A (115 V) 1.9 A (230 V)
Supply frequency	47 ... 63 Hz	
Efficiency	approx. 89 %	
<b>Output</b>		
Current limit	approx. 12 A	
Voltage	30 V ± 1 % Adjustment range 22.5 ... 29.5 V AC	
Current	0 ... 10 A	
<b>Directive conformity</b>		
Electromagnetic compatibility	Directive 2014/30/EU	
	EN 55011, EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4, EN 61000-3-2 class A, EN 61000-3-3, EN 61010-1	
Low voltage	Directive 2014/35/EU	
	EN 61010-1:2010	
<b>Conformity</b>		
Degree of protection	IEC 60529:2001	
<b>Standard conformity</b>		
Electromagnetic compatibility	EN 55011, EN 61000-6-1, EN 61000-6-2	
Standards	Harmonic waves: EN 61000-3-2 Class A Interference suppression: EN 55022, EN 55011 Class B Electrostatic discharge (ESD): IEC 61000-4-2 (8 kV contact discharge, 15 kV air discharge) Electromagnetic fields: IEC 61000-4-3 (10 V/m) Burst: IEC 61000-4-4 (4 kV input, 2 kV output/capacitively coupled) Surge: IEC 61000-4-5 (4 kV asymmetrical, 4 kV symmetrical) Conducted interference: IEC 61000-4-6 (10 V, 150 kHz to 80 MHz)	
<b>Ambient conditions</b>		
Ambient temperature	-10 ... 70 °C (14 ... 158 °F) with free convection	
Storage temperature	-25 ... 85 °C (-13 ... 185 °F)	
<b>Mechanical specifications</b>		
Housing length	140 mm	
Housing width	70 mm	
Housing height	132.5 mm	
Degree of protection	IP20	
Protection class	I, Protective conductor connection necessary	
Connection	Connection terminals, max. conductor cross-section 0.5 to 2.5 mm <sup>2</sup> Stripping length 5 to 6 mm	
Mass	approx. 1200 g	
Mounting	DIN mounting rail	

Connection



Assembly

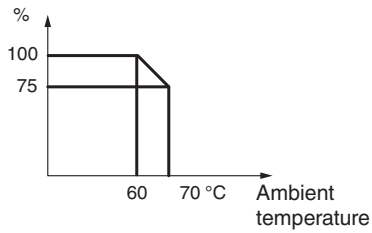


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## Characteristic Curve

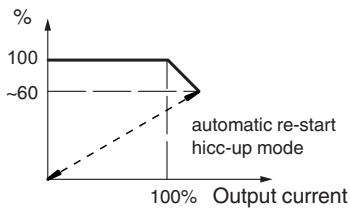
### Derating

Output power



### Output characteristic

Output voltage



## Mounting

In order to ensure proper heat dissipation the power supply has to be mounted vertically in such a way, that the input terminals (L/N/PE) are located at the upper side and the output terminals (+/-) at the lower side of the front panel. A minimum clearance of 100 mm beneath and above and 30 mm to the right and left of the power supply must be provided. The inlet air temperature beneath the unit must not exceed the values specified in the technical specification.

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