

Power supplies Ex9PS

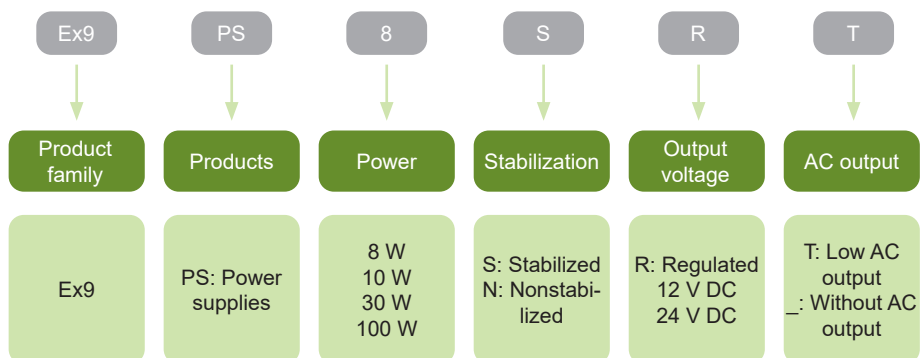


- Power range from 8 W up to 100 W
- Version with built-in transformer for small output AC voltage
- Types of output voltage
 - 12 V DC stabilized
 - 24 V DC stabilized
 - 12-24 V DC stabilized
 - 5-24 V DC stabilized
 - 24 V DC nonstabilized
 - 24 V AC
- integrated internal protections

DIN-rail mounted power supplies Ex9PS provide a convenient solution for powering DC operated devices like bells, videophones, vending machines, security systems, etc. Since these power supplies are air convection cooled, no cooling fans are needed. Output voltages from these supplies range from 5 V up to 24 V DC with power ratings from 8 W up to 100 W.

All power supplies have several built-in protections.

Type key



Certification marks



Power supplies Ex9PS

Power supplies

- Stabilized voltage output
- Version with 12 V DC, 24 V DC and adjustable (12-24 V DC) stabilized output
- The output current is limited by an electronic fuse, when the maximum current is exceeded, the source switches off, after a short delay it switches on again
- Thermal protection - in case of thermal overload the source switches off, after cooling it switches on again



Operating voltage	Output voltage	Power	Stabilized output	Article No.	Type	Packing
184-250 V AC	24 V DC	10 W	YES	111723	Ex9PS 10W S 24VDC	1/120
100-250 V AC	24 V DC	30 W	YES	111725	Ex9PS 30W S 24V DC	1/50
100-250 V AC	12-24 V DC	30 W	YES	111726	Ex9PS 30W S R	1/50
100-250 V AC	12 V DC	100 W	YES	111724	Ex9PS 100W S 12V DC	1/32
100-250 V AC	24 V DC	100 W	YES	111735	Ex9PS 100W S 24V DC	1/32

Power supplies with built-in transformer

- Built-in transformer for 24 V AC output
- Type Ex9PS 8W N 24V AC / DC T offers 24 V AC / DC unstabilized and is protected by a fuse
- Type Ex9PS 8W S R T offers 5-24 V DC stabilized and 24 V AC / DC unstabilized and is protected by an electronic fuse



Operating voltage	Output voltage	Power	Stabilized output	Article No.	Type	Packing
230 V AC	5-24 V DC	8 W	YES	111727	Ex9PS 8W S R T	1/50
230 V AC	24 V DC	8 W	NO	111728	Ex9PS 8W N 24V AC/DC T	1/50

Technical Data Ex9PS

Power supplies

General parameters

Thermal protection - in case of thermal overload the source switches off, after cooling it switches on again

The output current is limited by an electronic fuse, when the maximum current is exceeded, the source switches off, after a short delay it switches on again

Stabilized output voltage

Electrical parameters

	Ex9PS 10W S 24VDC	Ex9PS 30W S 24VDC	Ex9PS 30W S R	Ex9PS 100W S 12VDC	Ex9PS 100W S 24VDC
Tested according to	EN 61204-1, EN 61204-3, EN 61204-7				
Rated operating voltage U	184 - 250 V AC	100 - 250 V AC			
Burden without load (max.)	5 VA / 2 W	10 VA / 1.5 W	10 VA / 1.7 W	12 VA / 2 W	
Burden with full load (max.)	25 VA / 13 W	70 VA / 37 W		195 VA / 121 W	
Protection	fuse T1A	fuse T2A		fuse T 3.15A	
Output					
Output voltage DC Max. current	12.2 V 0.84 A	24.2 V 1.25 A	12.2 V / 24.2 V 2.5A / 1.25 A	12.2 V 8.4 A	24.2 V 4.2 A
Tolerance of output voltage	± 2%		± 3%	± 2%	
Electrical strength input- output	4kV				
Output indication	green LED				
Wave of off-load output voltage	80 mV	30 mV	40 mV	1 V	
Wave of output voltage with max load	20 mV	80 mV	500 mV	40 mV	
Time delay after connection	max. 1s	max. 5s	max. 1s	max. 3s	
Time delay after over-load	max. 1s			max. 0.5s	
Efficiency	> 75%	> 82%	> 81%	> 82%	
Electronic fuse	electronic protections short-circuit, over load, over voltage (from 120% of rated output)				

Mechanical parameters

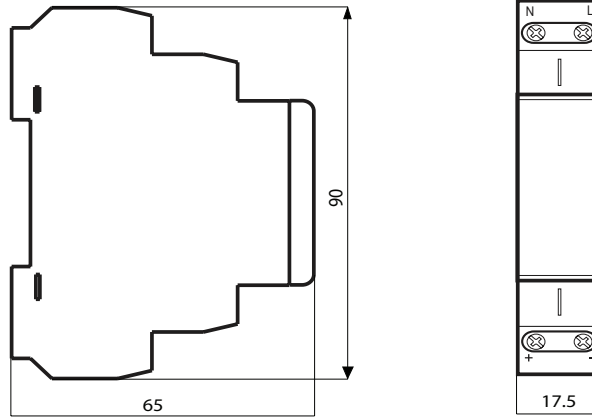
Device width	17.6 mm	52 mm		105 mm	
Device height	90 mm				
Frame size	45 mm				
Mounting	onto 35 mm device rail (DIN)				
Degree of protection	front protection IP40 / terminals IP20				
Terminals	screw terminals				
Terminal capacity	1 — 2.5 mm ²				
Fastening torque of terminals	0.8 Nm				
Ambient temperature	-20°C — +40°C				
Overvoltage category	II				
Pollution degree	2				
Weight	0.065 kg	0.160 kg	0.163 kg	0.377 kg	

Technical Data Ex9PS

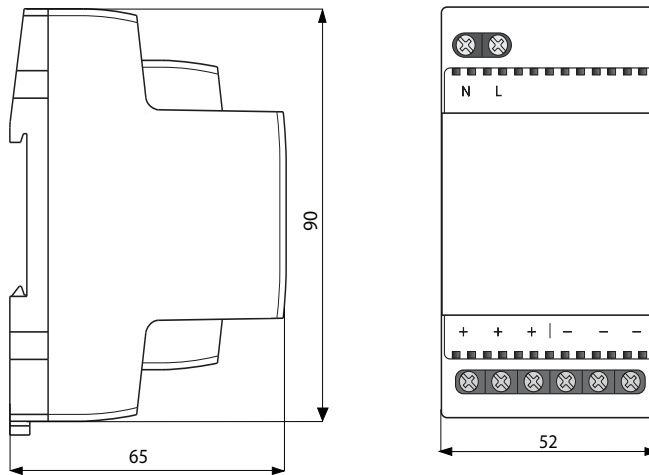
Power supplies

Dimensions

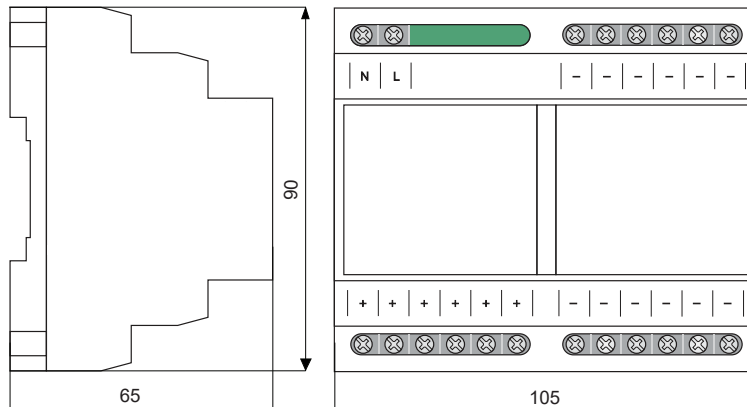
Ex9PS 10W S 24V DC



**Ex9PS 30W S R
Ex9PS 100W S 24V DC**



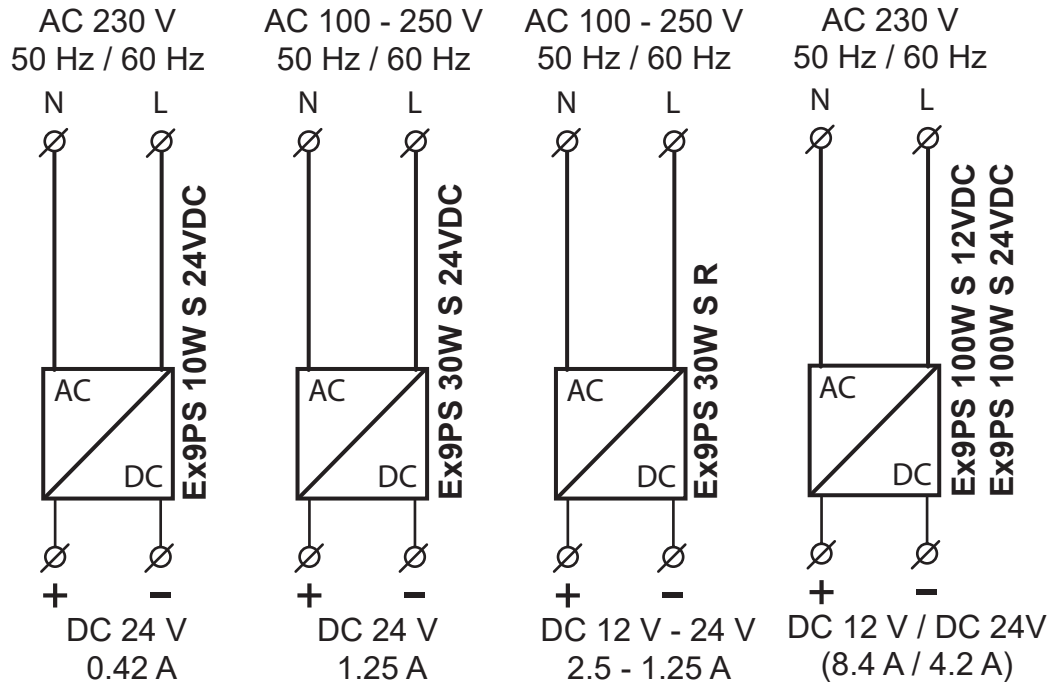
**Ex9PS 100W S 12V DC
Ex9PS 100W S 24V DC**



Technical Data Ex9PS

Power supplies

Wiring diagram



Technical Data Ex9PS

Power supplies with built-in transformer for AC output

General parameters

Power supplies with built-in transformer for AC output

Integrated short circuit protection

Electrical parameters

	Ex9PS 8W S R T	Ex9PS 8W N 24V AC/DC T
Tested according to	EN 61204-1, EN 61204-3, EN 61204-7	
Rated operating voltage U	230 V AC	
Supply voltage tolerance	-15 %; +10 %	
Consumption without load (max)	9 VA / 2.5 W	9 VA / 2 W
Consumption with load (max)	11.5 VA / 8 W	
Protection	primary wind T100 mA	
Output		
Output voltage	5-24 V DC stab. 24 V DC nonstab. 24 V AC	24V DC nonstab. 24 V AC
Tolerance output voltage	±5 %	x
Dielectrical strenght (prim/sec)	4 kV	
Wave of output voltage	300 mV	max. 3 V
Output voltage-no load AC	32 V	
Output voltage-no load DC	44 V	
Effi ciency	75 %	x
Electronic fuse	Towards black-out and current overloading	x

Mechanical parameters

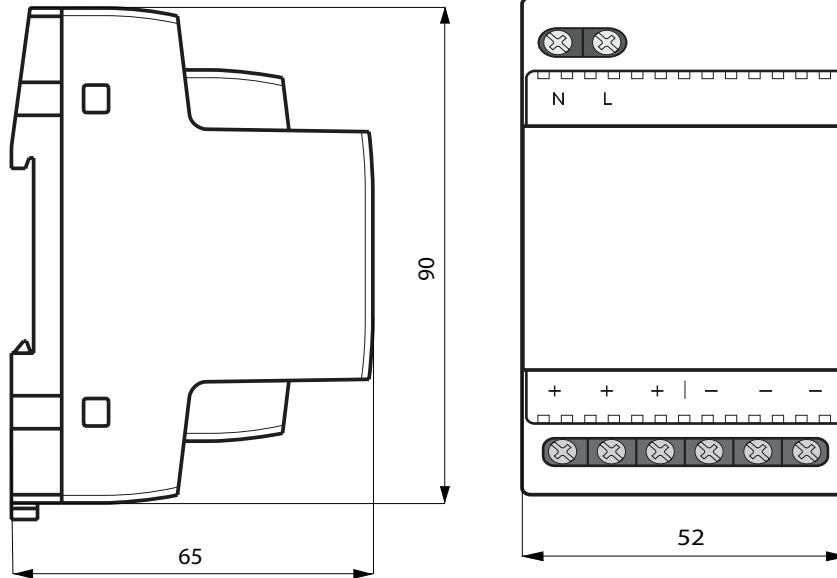
Device width	52 mm	
Device height	90 mm	
Frame size	45 mm	
Mounting	onto 35 mm device rail (DIN)	
Degree of protection	front protection IP40 / terminals IP20	
Terminals	screw terminals	
Terminal capacity	1 — 2,5 mm ²	
Fastening torque of terminals	0.8 Nm	
Ambient temperature	-20°C — +40°C	
Overvoltage category	II	
Pollution degree	2	
Weight	0.398 kg	0.368 kg

Technical Data Ex9PS

Power supplies with built-in transformer for AC output

Dimensions

Ex9PS 8W S R T
Ex9PS 8W N 24V AC/DC T



Wiring diagram

