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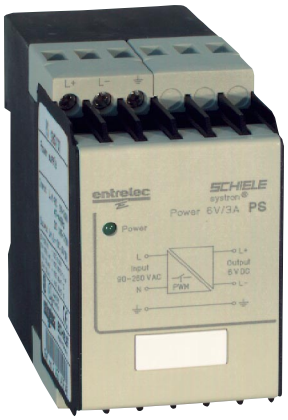
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Find the *TE Connectivity / Entrelec / Schiele PS Systron 2.423.418.00* at our website: *Click HERE*

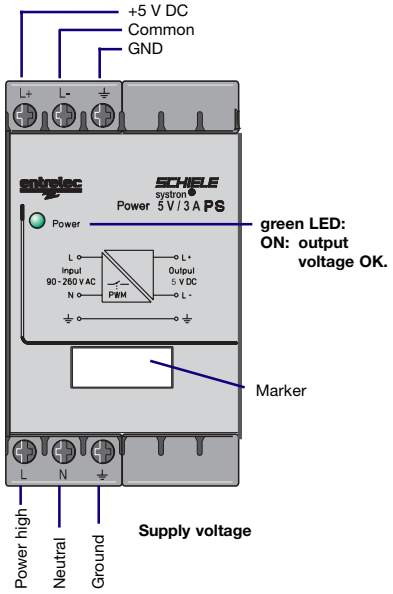
Switching Power Supply systron® PS



The switching power supplies, systron® PS, offer many advantages over conventional supplies:

- DIN Rail mount compact modules
- Low weight
- High efficiency
- Low heating
- Wide range of supply voltage
- Constant output voltage with good regulation
- UL, CSA listed, EN 50178 (VDE 0160)
- Short-circuit and overload proof
- Fused input

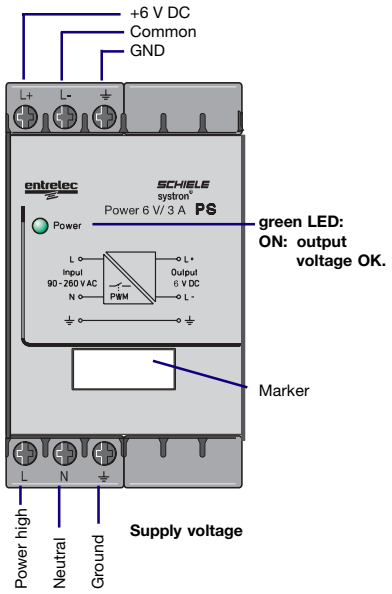
5 V DC / 3 A



Approvals: UL, CSA Class I & II, Div. 2

Power supply systron® PS	P/N:
systron® PS 5 V DC / 3 A	2 423 418 30

6 V DC / 3 A



Approvals: UL, CSA Class I & II, Div. 2

Power supply systron® PS	P/N:
systron® PS 6 V DC / 3 A	2 423 418 40

Technical data

	5 V DC / 3 A	6 V DC / 3 A
Input		
Supply voltage	90...260 V AC	90...260 V AC
	105...260 V DC	105...260 V DC
Frequency, AC input	47... 400 Hz	47... 400 Hz
Output load hold time	With input voltage drop out, min.10 ms at 100 % load	With input voltage drop out, min. 10 ms at 100 % load
Input current at nominal load	0.4 A (90 V AC) / 0.2 A (260 V AC)	0.5 A (90 V AC) / 0.25 A (260 V AC)
Inrush current 25° C (≤ 2 ms)	7.5 A	7.5 A
Internal input fuse	3.0 A (slow blow)	3.0 A (slow blow)
Output		
Output voltage	5 V DC ± 3 %	6 V DC ± 3 %
Output current	3 A	3 A
Current derating at temperature > 45°C	- 25 mA/°C	- 25 mA/°C
Current derating at input voltage < 100 V AC	-	-
Residual ripple / noise	max. 50 mVpp	max. 50 mVpp
Deviation of output with input change	max. ± 0.5 %	max. ± 0.5 %
Deviation of output with static load change	max. ± 0.5 %	max. ± 0.5 %
Deviation of output with dynamic load change	max. 5 %	max. 5 %
Short circuit protection	overcurrent switch off with automatic restart	overcurrent switch off with automatic restart
Overload protection	overtemperature and overcurrent switch off	overtemperature and overcurrent switch off
Reset after thermal overload	disconnection of AC power input min. 30 s	disconnection of AC power input min. 30 s
Norms, tests		
Electrical safety standards	EN 50178 (VDE 0160) / UL 508 / CSA 22.2	EN 50178 (VDE 0160) / UL 508 / CSA 22.2
Galvanic isolation	reliable isolation acc. to IEC 664-1, DIN VDE 0106-101	reliable isolation acc. to IEC 664-1, DIN VDE 0106-101
Voltage withstand input <-> output	2.5 kV AC, 3 kV AC type test	2.5 kV AC, 3 kV AC type test
Clearance and creepage distances	overvoltage category 2, pollution degree 2	overvoltage category 2, pollution degree 2
Electromagnetic immunity (EM) acc. to EN 50082-2:	ESD: EN 61000-4-2 level 3 6/8 kV	ESD: EN 61000-4-2 level 3 6/8 kV
	RF field: EN 61000-4-4 level 3 10 V/m	RF field: EN 61000-4-4 level 3 10 V/m
	Burst: EN 61000-4-5 level 4 4 kV	Burst: EN 61000-4-5 level 4 4 kV
	Surge: EN 61000-4-5 level 3 3 kV	Surge: EN 61000-4-5 level 3 3 kV
	conducted RF: EN 61000-4-6 level 3 10 V	conducted RF: EN 61000-4-6 level 3 10 V
Electromagnetic compatibility (EMC) acc. EN 50081-2	radiated noise EN 55011, class B	radiated noise EN 55011, class B
Input current harmonics	no limitation	no limitation
Protection against contact		
Terminals	IP 20	IP 20
Housing	IP 50	IP 30
Protection class	1	1
General characteristics		
Efficiency	approx. 81 %	approx. 85 %
Status indication	green LED, power OK	green LED, power OK
Operating temperature	0° ... +55°C	0° ... +55°C
Storage temperature	-25° ... +75°C	-25° ... +75°C
Terminals	screw terminals, 2 x 14 AWG (2.5 mm²)	screw terminals, 2 x 14 AWG (2.5 mm²)
Weight	approx. 0.22 kg (0.49 lb)	approx. 0.22 kg (0.49 lb)
Dimensions (W x H x D)	1.77 x 3.07 x 3.94" (45 x 78 x 100 mm)	1.77 x 3.07 x 3.94" (45 x 78 x 100 mm)
Mounting hints	Normal position: horizontal onto DIN rail. Spacing to other modules: left side min. 1 cm, vertical distances min. 5 cm	Normal position: horizontal onto DIN rail. Spacing to other modules: left side min. 1 cm, vertical distances min. 5 cm

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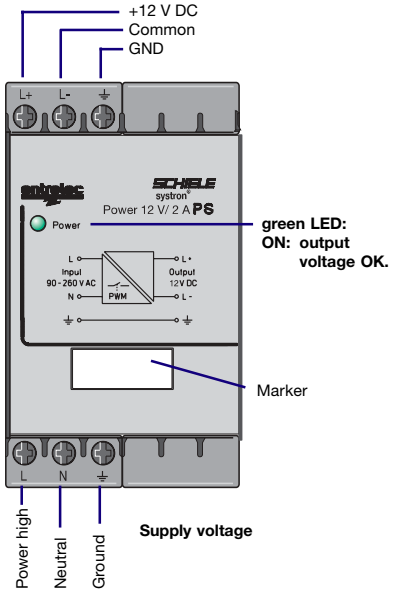
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- Fused input
- Adjustable output voltage

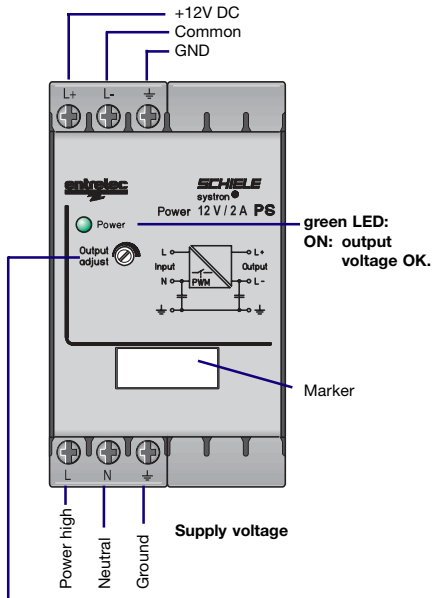
12 V DC / 2 A



Approvals: UL, CSA Class I & II, Div. 2

Power supply systron® PS	P/N:
systron® PS 12 V DC / 2 A	2 423 418 10

12 V DC / 2 A



Note: Adjustable output voltage from 9...15 V DC

Approvals: cULus LISTED Class I & II, Div. 2

Power supply systron® PS	P/N:
systron® PS 12 V DC / 2 A	2 423 418 11

Technical data

Input		
Supply voltage	90...260 V AC	90...260 V AC
	105...260 V DC	105...260 V DC
Frequency, AC input	47... 400 Hz	47... 400 Hz
Output load hold time	With input voltage drop out, min. 10 ms at 100 % load	With input voltage drop out, min.10 ms at 100 % load
Input current at nominal load	0.6 A (90 V AC) / 0.27 A (260 V AC)	0.7 A (90 V AC) / 0.3 A (260 V AC)
Inrush current 25° C (≤ 2 ms)	7.5 A	33 A
Internal input fuse	3.0 A (slow blow)	3.0 A (slow blow)
Output		
Output voltage	12 V DC ± 3 %	12 V DC ± 3 % (9...15 V DC adjustable with pot. max. 36 W)
Output current	2 A	2 A / 48 W
Current derating at temperature > 45°C	- 20 mA / °C	- 0.3 W / °C
Current derating at input voltage < 100 V AC	- 20 mA / V	-
Residual ripple / noise	max. 300 mVpp	max. 200 mVpp
Deviation of output with input change	max. ± 0.1 %	max. ± 0.5 %
Deviation of output with static load change	max. ± 0.5 %	max. ± 0.5 %
Deviation of output with dynamic load change	max. 5 %	max. 5 %
Short circuit protection	overcurrent switch off with automatic restart	overcurrent switch off with automatic restart
Overload protection	overtemperature and overcurrent switch off	overtemperature and overcurrent switch off
Reset after thermal overload	disconnection of AC power input min. 30 s	disconnection of AC power input min. 30 s
Norms, tests		
Electrical safety standards	EN 50178 (VDE 0160) / UL 508 / CSA 22.2	EN 50178 (VDE 0160) / UL 508 / CSA 22.2
Galvanic isolation	reliable isolation acc. to IEC 664-1, DIN VDE 0106-101	reliable isolation acc. to IEC 664-1, DIN VDE 0106-101
Voltage withstand input <-> output	2.5 kV AC, 3 kV AC type test	2.5 kV AC, 3 kV AC type test
Clearance and creepage distances	overvoltage category 2, pollution degree 2	overvoltage category 2, pollution degree 2
Electromagnetic immunity (EM) acc. to EN 50082-2:	ESD: EN 61000-4-2 level 3 6/8 kV	ESD: EN 61000-4-2 level 3 6/8 kV
	RF field: EN 61000-4-4 level 3 10 V/m	RF field: EN 61000-4-4 level 3 10 V/m
	Burst: EN 61000-4-5 level 4 4 kV	Burst: EN 61000-4-5 level 4 4 kV
	Surge: EN 61000-4-5 level 3 3 kV	Surge: EN 61000-4-5 level 3 3 kV
	conducted RF: EN 61000-4-6 level 3 10 V	conducted RF: EN 61000-4-6 level 3 10 V
Electromagnetic compatibility (EMC) acc. EN 50081-2	radiated noise EN 55011, class B	radiated noise EN 55011, class B
Input current harmonics	no limitation	no limitation
Protection against contact		
Terminals	IP 20	IP 20
Housing	IP 50	IP 30
Protection class	1	1
General characteristics		
Efficiency	approx. 80...83 %	approx. 79...84 %
Status indication	green LED, power OK	green LED, power OK
Operating temperature	0° ... +55°C	0° ... +55°C
Storage temperature	-25° ... +75°C	-25° ... +75°C
Terminals	screw terminals, 2 x 14 AWG (2.5 mm²)	screw terminals, 2 x 14 AWG (2.5 mm²)
Weight	approx. 0.22 kg (0.49 lb)	approx. 0.22 kg (0.49 lb)
Dimensions (W x H x D)	1.77 x 3.07 x 3.94" (45 x 78 x 100 mm)	1.77 x 3.07 x 3.94" (45 x 78 x 100 mm)
Mounting hints	Normal position: horizontal onto DIN rail. Spacing to other modules: left side min. 1 cm, vertical distances min. 5 cm	Normal position: horizontal onto DIN rail. Spacing to other modules: left side min. 1 cm, vertical distances min. 5 cm

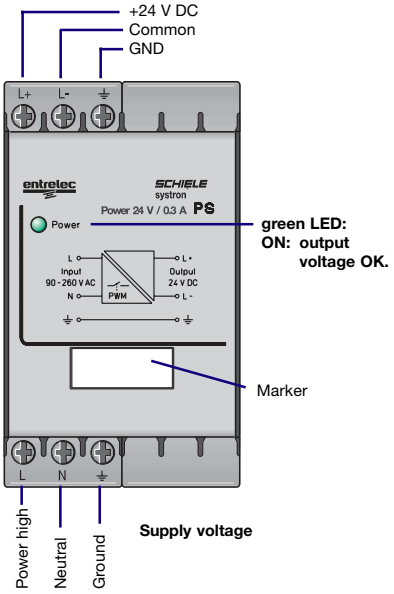
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- Short-circuit and overload proof
- Fused input

24 V DC / 0.3 A



- Approvals: UL, CSA Class I & II, Div. 2

Power supply systron® PS	P/N:
systron® PS 24 V DC / 0.3 A	2 423 418 20

Technical data

Input				
Supply voltage	90...260 V AC			
	105...260 V DC			
Frequency, AC input	47... 440 Hz			
Output load hold time	With input voltage drop out, min.10 ms at 100 % load			
Input current at nominal load	0.2 A (90 V AC) / 0.1 A (260 V AC)			
Inrush current at 25° C (≤ 2 ms)	7.5 A			
Internal input fuse	3.0 A (slow blow)			
Output				
Output voltage	24 V DC ± 3 %			
Output current / power	0,3 A			
Current derating at temperature > 45° C	-			
Current derating at input voltage < 100 V AC	-			
Residual ripple / noise	max. 100 mVpp			
Deviation of output with input change	max. ± 0.5 %			
Deviation of output with static load change	max. ± 0.5 %			
Deviation of output with dynamic load change 10-90 %	max. 5 %			
Short circuit protection	overcurrent switch off with automatic restart			
Overload protection	overtemperature and overcurrent switch off			
Reset after thermal overload	disconnection of AC power input min. 30 s			
Norms, tests				
Electrical safety standards	EN 50178 (VDE 0160) / UL 508 / CSA 22.2			
Galvanic isolation	reliable isolation acc. to IEC 664-1, DIN VDE 0106-101			
Voltage withstand input <-> output	2.5 kV AC, 3 kV AC type test			
Clearance and creepage distances	overvoltage category 2, pollution degree 2			
Electromagnetic immunity acc. to EN 50082-2:	ESD:	EN 61000-4-2	level 3	6/8 kV
	RF field:	EN 61000-4-4	level 3	10 V/m
	Burst:	EN 61000-4-5	level 4	4 kV
	Surge:	EN 61000-4-5	level 3	3 kV
	conducted RF:	EN 61000-4-6	level 3	10 V
Electromagnetic compatibility (EMC) acc. to EN 50081-2	radiated noise EN 55011, class B			
Input current harmonics	no limitation			
Protection against contact				
Terminals	IP 20			
Housing	IP 50			
Protection class	1			
General characteristics				
Efficiency	approx. 70 %			
Status indication	green LED, power OK			
Operating temperature	0° ... +55°C			
Storage temperature	-25° ... +75°C			
Terminals	screw terminals, 2 x 14 AWG (2.5 mm²)			
Weight	approx. 0.22 kg (0.49 lb)			
Dimensions (W x H x D)	1.77 x 3.07 x 3.94" (45 x 78 x 100 mm)			
Mounting hints	Normal position: horizontal onto DIN rail. Spacing to other modules: left side min. 1 cm, vertical distances min. 5 cm			

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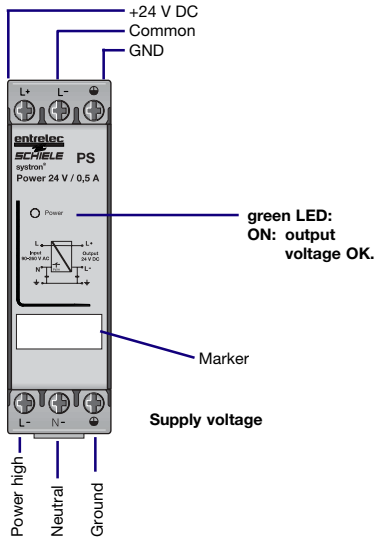
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- Short-circuit and overload proof
- Fused input

24 V DC / 0.5 A



- Approvals: cULus LISTED Class I & II, Div. 2

Power supply systron® PS	P/N:
systron® PS 24 V DC / 0.5 A	2 423 414 00

Technical data

Input				
Supply voltage	90...260 V AC			
	105...260 V DC			
Frequency, AC input	47... 440 Hz			
Output load hold time	With input voltage drop out, min.10 ms at 100% load			
Input current at nominal load	0.3 A (90 V AC) 0.15 A (260 V AC)			
Inrush current 25° C (≤ 2 ms)	33 A			
Internal input fuse	3.0 A (slow load)			
Output				
Output voltage	24 V DC ± 3 %			
Output current / power	0.5 A / 7.2 W			
Current derating at temperature > 45°C	-			
Current derating at input voltage < 105 V AC	-			
Residual ripple / noise	max. 100 mVpp			
Deviation of output with input change	max. ± 0.5 %			
Deviation of output with static load change 10-90%	max. ± 0.5 %			
Deviation of output with dynamic load change	max. 5 %			
Short circuit protection	overcurrent switch off with automatic restart			
Overload protection	overtemperature and overcurrent switch off			
Reset after thermal overload	Disconnection of AC power input 30 s min.			
Norms, tests				
Electrical safety standards	EN 50178 (VDE 0160)/UL 508/CSA 22.2			
Galvanic isolation	reliable isolation acc. to IEC 664-1, DIN VDE 0106-101			
Voltage withstand input <-> output	2.5 kV AC, 3 kV AC type test			
Clearance and creepage distances	overvoltage category 2, pollution degree 2			
Electromagnetic immunity (EM) in acc. to EN 50082-2:	ESD:	EN 61000-4-2 level 3	6/8 kV	
	RF field:	EN 61000-4-3 level 3	10 V/m	
	Burst:	EN 61000-4-4 level 4	4 kV	
	Surge:	EN 61000-4-5	3 kV	
	conducted RF:	EN 61000-4-6 level 3	10 V	
Electromagnetic compatibility (EMC) in acc. EN 50081-2	radiated noise EN 55011, class B			
Input current harmonics	no limitation			
Protection against contact				
Terminals	IP 20			
Housing	IP 50			
Protection class	1			
General characteristics				
Efficiency (nominal load)	approx. 84 %			
Status indication	Green LED, power OK			
Operating temperature	0° ... 55°C			
Storage temperature	-25° ... +75°C			
Terminals	screw terminals, 2 x 14 AWG (2.5 mm²)			
Weight	approx. 0.22 kg (0.49 lb)			
Dimensions (W x H x D)	0.89 x 3.07 x 4.72" (22.5 x 78 x 120 mm)			
Mounting hints	Normal position: horizontal onto DIN rail. Spacing to other modules: left side min. 1 cm, vertical distances min. 5 cm			

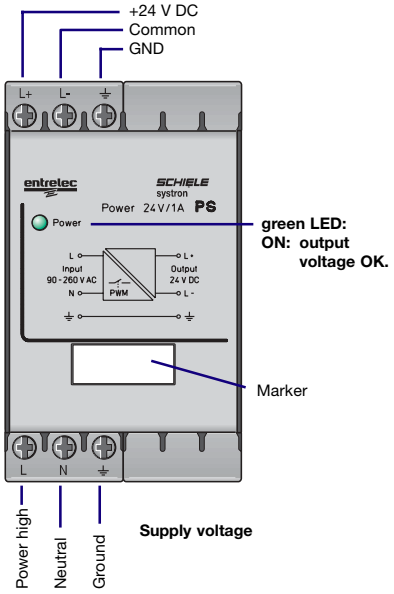
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- Adjustable output voltage

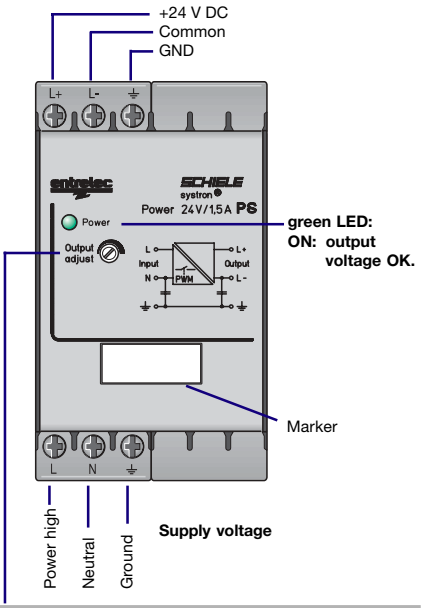
24 V DC / 1 A



■ Approvals: UL, CSA Class I & II, Div. 2

Power supply systron® PS	P/N:
systron® PS 24 V DC / 1 A	2 423 418 00

24 V DC / 1.5 A



Note: Adjustable output voltage from 21 to 28 V DC

■ Approvals: cULus LISTED Class I & II, Div. 2

Power supply systron® PS	P/N:
systron® PS 24 V DC / 1.5 A	2 423 418 50

Technical data

Input		
Supply voltage	90...260 V AC	90...260 V AC
	105...260 V DC	105...260 V DC
Frequency, AC input	47... 440 Hz	47... 440 Hz
Output load hold time	With input voltage drop out, min. 10 ms at 100% load	With input voltage drop out, min. 20 ms at 100% load
Input current at nominal load	max. 0.58 A (90 V AC)/typ. 0.45 A (115 V AC)/typ. 0.27 A (230 V AC)	max. 0.8 A (90 V AC)/typ. 0.7 A (115 V AC)/typ. 0.39 A (230 V AC)
Inrush current 25° C (≤ 2 ms)	7.5 A (260 V)	33 A (260 V)
Internal input fuse	3.0 A (slow blow)	3.0 A (slow blow)
Output		
Output voltage	24 V DC ± 3 %	24 V DC ± 3 % (21...28 V DC adjustable with pot. (max. 36 W))
Output current / power	1 A	1.5 A / 36 W
Power derating at temperature > 45°C	-	- 0.3 W / °C
Current derating at input voltage < 100 V AC	- 10 mA / V	-
Power derating at input voltage < 105 V AC / 120 V DC	-	-0.2 W / V
Residual ripple / noise	max. 300 mVpp	max. 300 mVpp
Deviation of output with input change	max. ± 0.1 %	max. ± 0.5 %
Deviation of output with static load change	max. ± 0.5 %	max. ± 0.5 %
Deviation of output with dynamic load change	max. 5 %	max. 5 %
Short circuit protection	overcurrent switch off with automatic restart	overcurrent switch off with automatic restart
Overload protection	overtemperature and overcurrent switch off	overtemperature and overcurrent switch off
Reset after thermal overload	disconnection of AC power input min. 30 s	disconnection of AC power input min. 30 s
Norms, tests		
Electrical safety standards	EN 50178 (VDE 0160)/UL 508/CSA 22.2	EN 50178 (VDE 0160)/UL 508/CSA 22.2
Galvanic isolation	reliable isolation acc. to IEC 664-1, DIN VDE 0106-101	reliable isolation acc. to IEC 664-1, DIN VDE 0106-101
Voltage withstand input <-> output	2.5 kV AC, 3 kV AC type test	2.5 kV AC, 3 kV AC type test
Clearance and creepage distances according to	overvoltage category 2, pollution degree 2	overvoltage category 2, pollution degree 2
Electromagnetic immunity (EM) in acc. to EN 50082-2:	ESD: EN 61000-4-2 level 3 6/8 kV	ESD: EN 61000-4-2 level 3 6/8 kV
	RF field: EN 61000-4-3 level 3 10 V/m	RF field: EN 61000-4-3 level 3 10 V/m
	Burst: EN 61000-4-4 level 4 4 kV	Burst: EN 61000-4-4 level 4 4 kV
	Surge: EN 61000-4-5 3 kV	Surge: EN 61000-4-5 3 kV
	conducted RF: EN 61000-4-6 level 3 10 V	conducted RF: EN 61000-4-6 level 3 10 V
Electromagnetic compatibility (EMC) in acc. EN 50081-2	radiated noise EN 55011, class B	radiated noise EN 55011, class B
Input current harmonics	no limitation	no limitation
Protection against contact		
Terminals	IP 20	IP 20
Housing	IP 50	IP 30
Protection class	1	1
General characteristics		
Efficiency (nominal load)	approx. 82...84 % (90...260 V AC)	approx. 83...86 % (102...260 V AC)
Status indication	green LED, power OK	green LED, power OK
Operating temperature	0° ... 55°C	0° ... 55°C
Storage temperature	-25° ... +75°C	-25° ... +75°C
Terminals	screw terminals, 2 x 14 AWG (2.5 mm²)	screw terminals, 2 x 14 AWG (2.5 mm²)
Weight	approx. 0.22 kg (0.49 lb)	approx. 0.22 kg (0.49 lb)
Dimensions (W x H x D)	1.77 x 3.07 x 3.94" (45 x 78 x 100 mm)	1.77 x 3.07 x 3.94" (45 x 78 x 100 mm)
Mounting hints	Normal position: horizontal onto DIN rail. Spacing to other modules: left side min. 1 cm, vertical distances min. 5 cm	Normal position: horizontal onto DIN rail. Spacing to other modules: left side min. 1 cm, vertical distances min. 5 cm

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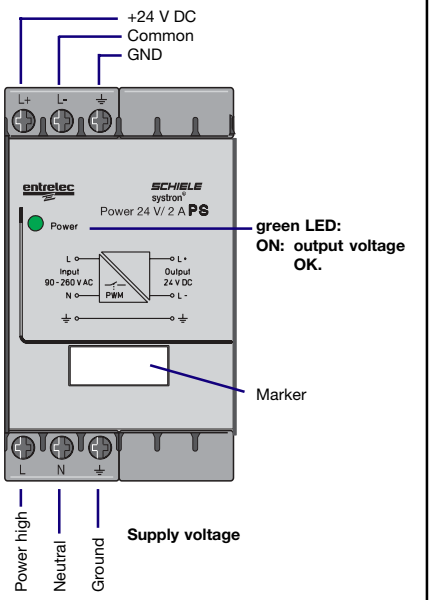
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- UL listed, CSA approved, complies with VDE 0160
- Short-circuit and overload proof
- Fused input
- Adjustable output voltage

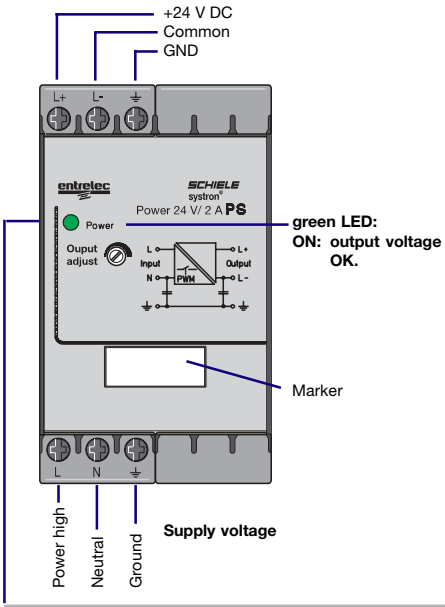
24 V DC / 2 A



■ Approvals: UL, CSA Class I & II, Div. 2

Power supply systron® PS	P/N:
systron® PS 24 V DC / 2 A, 90...140 V AC [1]	2 423 417 00
systron® PS 24 V DC / 2 A, 140...260 V AC [2] 160...260 V DC [2]	2 423 417 10

24 V DC / 2 A



Note: Adjustable output voltage from 21 to 28 V DC

■ Approvals: c UL us LISTED Class I & II, Div. 2

Power supply systron® PS	P/N:
systron® PS 24 V DC / 2 A, 140...260 V AC 160...260 V DC	2 423 417 11

Technical data

Input					
Supply voltage	[1] 90...140 V AC	[2] 140...260 V AC/160...260 V DC		140...260 V AC / 160...260 V DC	
Frequency, AC input	[1] 47...63 Hz	[2] 47...440 Hz		47...440 Hz	
Output load hold tim	With input voltage drop out, min. 10 ms at 100% load			With input voltage drop out , min.10 ms at 100% load	
Input current at nominal load	[1] max. 1.0 A (90 V AC)	[2] max. 0.8 A (140 V AC)		max. 0,8 A (90 V AC) / typ. 0,45 A (260 V AC)	
	typ. 0.9 A (230 V AC)	typ. 0.45 A (230 V AC)			
Inrush current at 25° C (≤2 ms)	[1] 23 A (140 V AC)	[2] 9 A (260 V AC)		33 A (260 V AC)	
Internal input fuse	3.0 A (slow blow)			3.0 A (slow blow)	
Output					
Output voltage	24 V DC ± 3 %			24 V DC ± 3 % (21...28 V DC adjustable with pot (max. 48 W))	
Output current / power	2 A / 48 W			2 A / 48 W	
Current derating at temperature > 45° C	-			-	
Current derating at input voltage < 90 V AC or 140 V AC	-			-	
Residual ripple / noise	max. 300 mVpp			max. 100 mVpp	
Deviation of output with input change	max. ± 0.2 %			max. ± 0.5 %	
Deviation of output with static load change	max. ± 0.5 %			max. ± 0.5 %	
Deviation of output with dynamic load change	max. 5 %			max. 5 %	
Short circuit protection	overcurrent switch off with automatic restart			overcurrent switch off with automatic restart	
Overload protection	overtemperature and overcurrent switch off			overtemperature and overcurrent switch off	
Reset after thermal overload	disconnection of AC power input min. 30 s			disconnection of AC power input min. 30 s	
Norms, tests					
Electrical safety standards	EN 50178 (VDE 0160)/UL 508/CSA 22.2			EN 50178 (VDE 0160)/UL 508/CSA 22.2	
Galvanic isolation	reliable isolation acc. to IEC 664-1, DIN VDE 0106-101			reliable isolation acc. to IEC 664-1, DIN VDE 0106-101	
Voltage withstand input <-> output	2.5 kV AC, 3 kV AC type test			2.5 kV AC, 3 kV AC type test	
Clearance and creepage distances according to	overvoltage category 2, pollution degree 2			overvoltage category 2, pollution degree 2	
Electromagnetic immunity (EM) in acc. to EN 50082-2:	ESD:	EN 61000-4-2 level 3	6/8 kV	ESD: EN 61000-4-2 level 3	6/8 kV
	RF field:	EN 61000-4-3 level 3	10 V/m	RF field: EN 61000-4-3 level 3	10 V/m
	Burst:	EN 61000-4-4 level 4	4 kV	Burst: EN 61000-4-4 level 4	4 kV
	Surge:	EN 61000-4-5	3 kV	Surge: EN 61000-4-5	3 kV
	conducted RF:	EN 61000-4-6 level 3	10 V	conducted RF: EN 61000-4-6 level 3	10 V
Electromagnetic compatibility (EMC) in acc. EN 50081-2	radiated noise EN 55011, class B			radiated noise EN 55011, class B	
Input current harmonics	no limitation			no limitation	
Protection against contact					
Terminals	IP 20			IP 20	
Housing	IP 20			IP 30	
Protection class	1			1	
General characteristics					
Efficiency (nominal load)	approx. 82...86 % (90...260 V AC)			approx. 83...86 % (140...260 V AC)	
Status indication	green LED, power OK			green LED, power OK	
Operating temperature	0° ... 55°C			0° ... 55°C	
Storage temperature	-25° ... +75°C			-25° ... +75°C	
Terminals	screw terminals, 2 x 14 AWG (2.5 mm²)			screw terminals, 2 x 14 AWG (2.5 mm²)	
Weight	approx. 0.3 kg (0.66 lb)			approx. 0.28 kg (0.62 lb)	
Dimensions (W x H x D)	1.77 x 3.07 x 4.72" (45 x 78 x 120 mm)			1.77 x 3.07 x 4.72" (45 x 78 x 120 mm)	
Mounting hints	Normal position: horizontal onto DIN rail. Spacing to other modules: left side min. 1 cm, vertical distances min. 5 cm			Normal position: horizontal onto DIN rail. Spacing to other modules: left side min. 1 cm, vertical distances min. 5 cm	

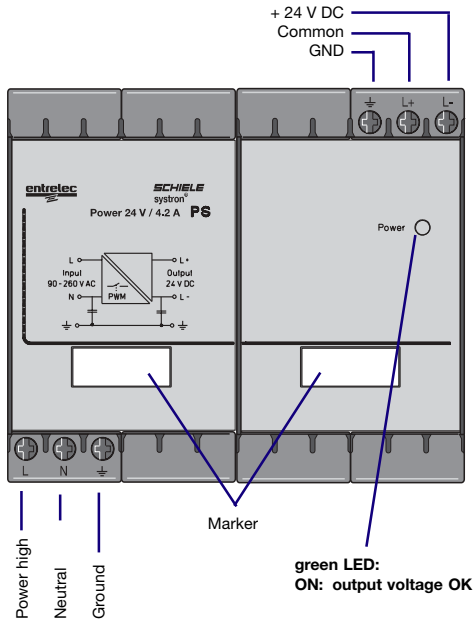
Switching Power Supply systron® PS



The switching power supplies, systron® PS, offer many advantages over conventional supplies:

- DIN Rail mount compact modules
- Low weight
- High efficiency
- Low heating
- Wide range of supply voltage
- Constant output voltage
- UL, CSA listed, EN 50178 (VDE 0160)
- Short-circuit and overload proof
- Fused input

24 V DC / 4.2 A



Supply voltage

■ Approvals: c UL us LISTED Class I & II, Div. 2

Power supply systron® PS	P/N:
systron® PS 24 V DC / 4.2 A	2 423 416 10

Technical data

Input				
Supply voltage	90...260 V AC			
	127...260 V DC			
Frequency, AC input	47... 63 Hz			
Output load hold time	With input voltage drop out, min. 10 ms at 100% load (90 V AC)			
Input current at nominal load	max. 1.5 A (90 V AC)/typ. 1.1 A (115 V AC)/0.52 A (230 V AC)			
Inrush current 25° C (≤ 2 ms)	40 A (260 V)			
Internal input fuse	2 A (slow blow)			
Output				
Output voltage	24 V DC ± 3 %			
Output current / power at...	T ≤ 55°C			
V_{in} = 90...260 V AC	4.2 A			
V_{in} = 127...260 V DC	4.2 A			
Residual ripple / noise	max. 200 mVpp			
Deviation of output with input change	max. ± 0.05 %			
Deviation of output with static load change	max. ± 0.5 %			
Deviation of output with dynamic load change	max. 5 %			
Short circuit protection	overcurrent switch off with automatic restart			
Overload protection	overtemperature and overcurrent switch off			
Reset after thermal overload	disconnection of AC power input min. 30 s			
Norms, tests				
Electrical safety standards, approvals	EN 50178 (VDE 0160)/EN 60950/UL 508/CSA 22.2			
Galvanic isolation	reliable isolation acc. to EN 60950, DIN VDE 0106-101			
Voltage withstand input <-> output	1.5 kV AC, 3 kV AC type test			
Clearance and creepage distances according to	overvoltage category 3, pollution degree 2			
Electromagnetic immunity (EMI) in acc. to EN 50082-2:	ESD:	EN 61000-4-2	level 3	6/8 kV
	RF field:	EN 61000-4-3	level 3	10 V/m
	Burst:	EN 61000-4-4	level 3	2 kV
	Surge:	EN 61000-4-5		2 kV
	conducted RF:	EN 61000-4-6	level 3	10 V
Electromagnetic compatibility (EMC) in acc. EN 50081-2	radiated noise EN 55011, class A			
Input current harmonics	-			
Protection against contact				
Terminals	IP 20			
Housing	IP 20			
Protection class	1			
General characteristics				
Efficiency (nominal load)	77...85 % (90...260 V AC)			
Status indication	green LED, power OK			
Operating temperature	0° ... 55°C			
Storage temperature	-25° ... +75°C			
Terminals	screw terminals, 2 x 14 AWG (2.5 mm²)			
Weight	approx. 0.58 kg (1.3 lb)			
Dimensions (W x H x D)	3.54 x 3.07 x 4.72" (90 x 78 x 120 mm)			
Mounting hints	Normal position: horizontal onto DIN rail. Spacing to other modules: left side min. 1 cm, vertical distances min. 5 cm			

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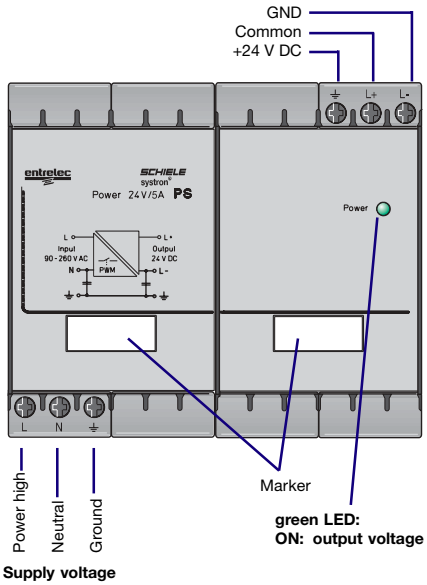
Switching Power Supply systron® PS



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- DIN Rail mount compact modules
- Low weight
- High efficiency
- Low heating
- Wide range of supply voltage
- Constant output voltage with good regulation
- UL, CSA listed, EN 50178 (VDE 0160)
- Short-circuit and overload proof
- Fused input
- Adjustable output voltage
- Power factor correction

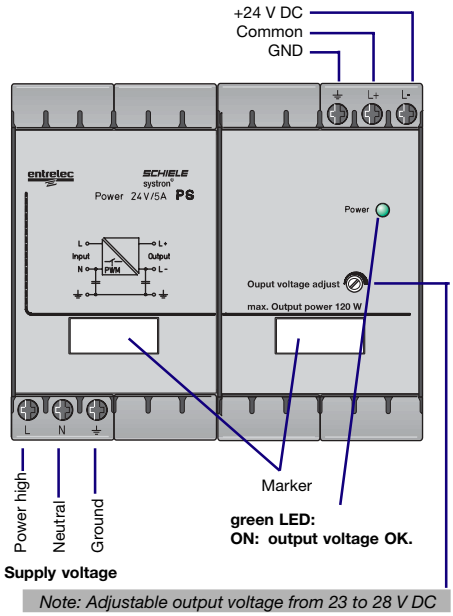
24 V DC / 5 A



Approvals: UL, CSA Class I & II, Div. 2

Power supply systron® PS	P/N:
systron® PS 24 V DC / 5 A	2 423 416 00

24 V DC / 5 A



Note: Adjustable output voltage from 23 to 28 V DC

Approvals: cULus LISTED Class I & II, Div. 2

Power supply systron® PS	P/N:
systron® PS 24 V DC / 5 A	2 423 416 01

Technical data

Input						
Supply voltage	90...260 V AC			90...260 V AC		
	127...260 V DC			127...260 V DC		
Frequency, AC input	47... 63 Hz			47... 63 Hz		
Output load hold time	With input voltage drop out, min. 10 ms at 100% load (90 V AC)			With input voltage drop out , min. 10 ms at 100% load (90 V AC)		
Input current at nominal load	max. 1.8 A (90 V AC)/typ. 1.3 A (115 V AC)/0.63 A (230 V AC)			max. 1.8 A (90 V AC)/typ. 1.3 A (115 V AC)/0.63 A (230 V AC)		
Inrush current 25° C (≤ 2 ms)	40 A (260 V)			40 A (260 V)		
Internal input fuse	2 A (slow blow)			2 A (slow blow)		
Output						
Output voltage	24 V DC ± 3 %			24 V DC ± 3 % (23...28 V DC adjustable with pot. (max. 120 W)		
Output current / power at...	T ≤ 40°C	T > 40°C	T = 55°C	T ≤ 40°C	T > 40°C	T = 55°C
V_{in} = 90...260 V AC	5 A	-0.054 A/°C	4.2 A	5 A (24 V)/120 W	-1.33 W/°C	4.2 A (24 V)/100 W
V_{in} = 127...260 V DC	5 A	-0.054 A/°C	4.2 A	5 A (24 V)/120 W	-1.33 W/°C	4.2 A (24 V)/100 W
Residual ripple / noise	max. 200 mVpp			max. 200 mVpp		
Deviation of output with input change	max. ± 0.05 %			max. ± 0.05 %		
Deviation of output with static load change	max. ± 0.5 %			max. ± 0.5 %		
Deviation of output with dynamic load change	max. 5 %			max. 5 %		
Short circuit protection	overcurrent switch off with automatic restart			overcurrent switch off with automatic restart		
Overload protection	overtemperature and overcurrent switch off			overtemperature and overcurrent switch off		
Reset after thermal overload	disconnection of AC power input min. 30 s			disconnection of AC power input min. 30 s		
Norms, tests						
Electrical safety standards, approvals	EN 50178 (VDE 0160)/EN 60950/UL 508/CSA 22.2			EN 50178 (VDE 0160)/UL 508/CSA 22.2		
Galvanic isolation	reliable isolation acc. to EN 60950, DIN VDE 0106-101			reliable isolation acc. to IEC 664-1, DIN VDE 0106-101		
Voltage withstand input <-> output	1.5 kV AC, 3 kV AC type test			1.5 kV AC, 3 kV AC type test		
Clearance and creepage distances according to	overvoltage category 3, pollution degree 2			overvoltage category 3, pollution degree 2		
Electromagnetic immunity (EMI) in acc. to EN 50082-2:	ESD:	EN 61000-4-2 level 3	6/8 kV	ESD:	EN 61000-4-2 level 3	6/8 kV
	RF field:	EN 61000-4-3 level 3	10 V/m	RF field:	EN 61000-4-3 level 3	10 V/m
	Burst:	EN 61000-4-4 level 3	2 kV	Burst:	EN 61000-4-4 level 3	2 kV
	Surge:	EN 61000-4-5	2 kV	Surge:	EN 61000-4-5	2 kV
	conducted RF:	EN 61000-4-6 level 3	10 V	conducted RF:	EN 61000-4-6 level 3	10 V
Electromagnetic compatibility (EMC) in acc. EN 50081-2	radiated noise EN 55011, class A			radiated noise EN 55011, class A		
Input current harmonics	limited according to EN 61000-3-2, class A			limited according to EN 61000-3-2, class A		
Protection against contact						
Terminals	IP 20			IP 20		
Housing	IP 20			IP 20		
Protection class	1			1		
General characteristics						
Efficiency (nominal load)	77...85 % (90...260 V AC)			77...85 % (90...260 V AC)		
Status indication	green LED, power OK			green LED, power OK		
Operating temperature	0° ... 55°C			0° ... 55°C		
Storage temperature	-25° ... +75°C			-25° ... +75°C		
Terminals	screw terminals, 2 x 14 AWG (2.5 mm²)			screw terminals, 2 x 14 AWG (2.5 mm²)		
Weight	approx. 0.58 kg (1.3 lb)			approx. 0.58 kg (1.3 lb)		
Dimensions (W x H x D)	3.54 x 3.07 x 4.72" (90 x 78 x 120 mm)			3.54 x 3.07 x 4.72" (90 x 78 x 120 mm)		
Mounting hints	Normal position: horizontal onto DIN rail. Spacing to other modules: left side min. 1 cm, vertical distances min. 5 cm			Normal position: horizontal onto DIN rail. Spacing to other modules: left side min. 1 cm, vertical distances min. 5 cm		

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Switching Power Supply systron® PS TSL

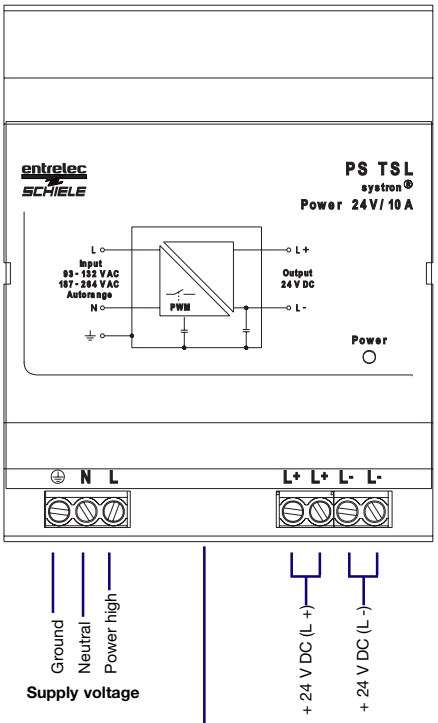


The switching power supplies, systron® PS TSL, offer many advantages over conventional power supplies:

- DIN Rail mount compact modules
- Low weight
- High efficiency
- Low heating
- Wide range of supply voltage
- Constant output voltage
- UL, cUL listed, EN 50178 (VDE 0160)
- Short-circuit and overload protection
- Fused input
- Adjustable output voltage
- Parallel operation up to 5 power supplies

- Approvals: c UL us LISTED

24 V DC / 10 A



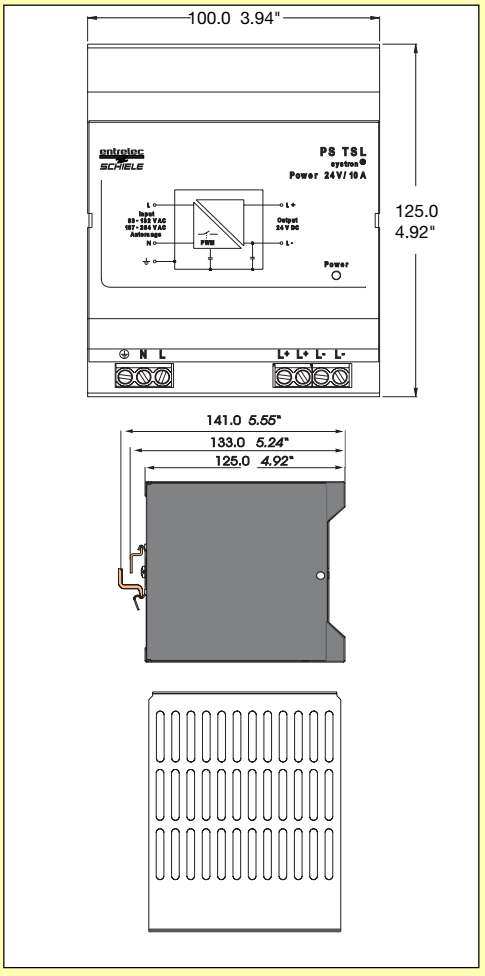
Note: Adjustable output voltage from 24 to 28 V DC

Power supply systron® PS TSL	P/N:
systron® PS TSL 24 V DC / 10 A	2 423 415 00

Technical data

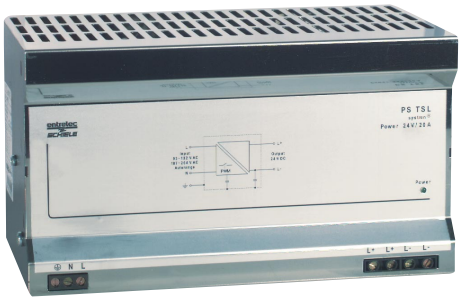
Input			
Supply voltage	93...132 / 187...264 V AC autorange		
Frequency, AC input	47... 63 Hz		
Output load hold time	With input voltage drop out, min. 20 ms at 100% load		
Input current at nominal load	max. 4.3 A (93 V)/typ. 3.5 A (115 V)/typ. 1.7 A (230 V)		
Inrush current 25° C (≤ 1 ms)	69 A (230 V)		
Internal input fuse	4 A (slow blow)		
Output			
Output voltage	24 V DC ± 1 %		
	(24...28 V adjustable with insulated screwdriver)		
Output current / power at...	T ≤ 60°C	T > 60°C	T = 70°C
V_{in} = 93...132 V AC	10 A	-2 %/°C	8 A
V_{in} = 187...264 V AC	10 A	-2 %/°C	8 A
Residual ripple / noise	max. 50 mVpp		
Deviation of output with input change	max. ± 0.2 %		
Deviation of output with load change 10-90 %	max. ± 0.3 % (± 1.5 % parallel operation)		
Short circuit protection	overcurrent limiting with automatic restart		
Overload protection	overcurrent limiting (constant current typ. 110 % I_{out})		
Overvoltage protection	triggerpoint at typ. 140 % nom. output voltage		
Parallel operation (option)	up to 5 modules (must be enabled by internal jumper)		
Norms, tests			
Electrical safety standards, approvals	EN 50178 (VDE 0160)/EN 60950/UL 508/UL 1950		
Galvanic isolation	reliable isolation acc. to EN 60950		
Voltage withstand input <-> output	3 kV AC type test		
Clearance and creepage distances according to	overvoltage category 2, pollution degree 2		
Electromagnetic immunity (EMI) in acc. to EN 50082-2:	ESD:	EN 61000-4-2 level 3	6/8 kV
	RF field:	EN 61000-4-3 level 3	10 V/m
	Burst:	EN 61000-4-4 level 3	2 kV
	Surge:	EN 61000-4-5 level 4	2/4 kV
	conducted RF:	EN 61000-4-6 level 3	10 V
Electromagnetic compatibility (EMC) in acc. EN 50081-2	radiated noise EN 55011/EN 50022, class B		
Input current harmonics	-		
Protection against contact			
Terminals	IP 20		
Housing	IP 20		
Protection class	1		
General characteristics			
Efficiency (nominal load)	typ. 90 % (230 V)		
Status indication	green LED, power OK		
Operating temperature	-25° ... +70°C		
Storage temperature	-25° ... +85°C		
Terminals	screw terminals, 12 AWG (2.5 mm²)		
Weight	approx. 1.05 kg (2.32 lb)		
Dimensions (W x H x D)	3.94 x 4.92 x 4.92" (100 x 125 x 125 mm)		
Mounting hints	Normal position: horizontal onto DIN rail. Spacing to other modules: both sides min. 5 cm, vertical distances min. 8 cm		

Dimensions



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Switching Power Supply systron® PS TSL

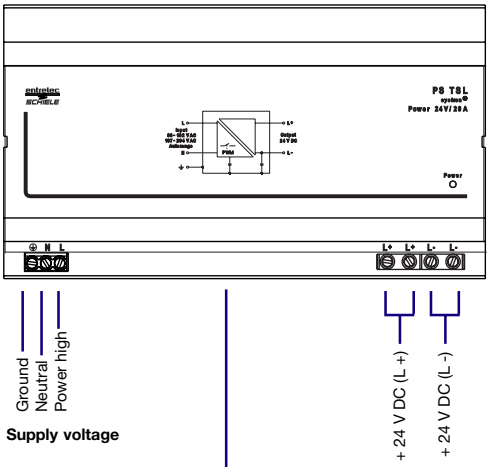


The switching power supplies, systron® PS TSL, offer many advantages over conventional power supplies:

- DIN Rail mount compact modules
- Low weight
- High efficiency
- Low heating
- Wide range of supply voltage
- Constant output voltage
- UL, cUL listed, EN 50178 (VDE 0160)
- Short-circuit and overload protection
- Fused input
- Adjustable output voltage
- Parallel operation up to 5 power supplies

- Approvals: cULus LISTED

24 V DC / 20 A



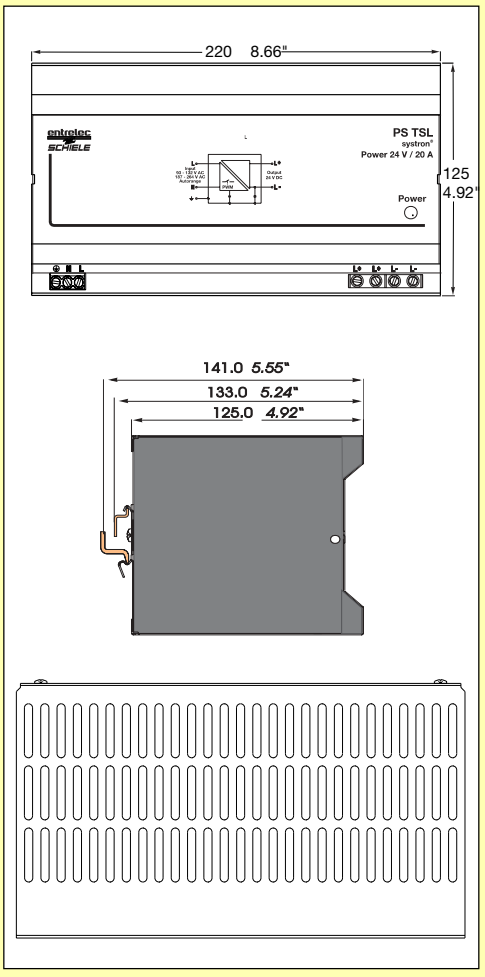
Note: Adjustable output voltage from 24 to 28 V DC

Power supply systron® PS TSL	P/N:
systron® PS TSL 24 V DC / 20 A	2 423 415 10

Technical data

Input			
Supply voltage	93...132 / 187...264 V AC autorange		
Frequency, AC input	47... 63 Hz		
Output load hold time	With input voltage drop out, min. 15 ms at 100% load		
Input current at nominal load	max. 8.9 A (93 V)/typ. 7.2 A (115 V)/typ. 3.5 A (230 V)		
Inrush current 25° C (≤ 2 ms)	max. 65 A (230 V)		
Internal input fuse	10 A (slow blow)		
Output			
Output voltage	24 V DC ± 1 %		
	(24...28 V adjustable with insulated screwdriver)		
Output current / power at...	T ≤ 60°C	T > 60°C	T = 70°C
V_{in} = 93...132 V AC	20 A	-2 %/°C	16 A
V_{in} = 187...264 V AC	20 A	-2 %/°C	16 A
Residual ripple / noise	max. 50 mVpp		
Deviation of output with input change	max. ± 0.2 %		
Deviation of output with load change 10-90 %	max. ± 0.3 % (± 1.5 % parallel operation)		
Short circuit protection	overcurrent limiting with automatic restart		
Overload protection	overcurrent limiting (constant current typ. 110 % I_{out})		
Overvoltage protection	trigger point at typ. 140 % nom. output voltage		
Parallel operation (option)	up to 5 modules (must be enabled by internal jumper)		
Norms, tests			
Electrical safety standards, approvals	EN 50178 (VDE 0160)/EN 60950/UL 508/UL 1950		
Galvanic isolation	reliable isolation acc. to EN 60950		
Voltage withstand input <-> output	3 kV AC type test		
Clearance and creepage distances according to	overvoltage category 2, pollution degree 2		
Electromagnetic immunity (EMI) in acc. to EN 50082-2:	ESD:	EN 61000-4-2 level 3	6/8 kV
	RF field:	EN 61000-4-3 level 3	10 V/m
	Burst:	EN 61000-4-4 level 3	2 kV
	Surge:	EN 61000-4-5 level 4	2/4 kV
	conducted RF:	EN 61000-4-6 level 3	10 V
Electromagnetic compatibility (EMC) in acc. EN 50081-2	radiated noise EN 55011/EN 50022, class B		
Input current harmonics	-		
Protection against contact			
Terminals	IP 20		
Housing	IP 20		
Protection class	1		
General characteristics			
Efficiency (nominal load)	typ. 88 % (230 V)		
Status indication	green LED, power OK		
Operating temperature	-25° ... +70°C		
Storage temperature	-25° ... +85°C		
Terminals	screw terminals, 12 AWG (2.5 mm²)		
Weight	approx. 2.2 kg (5 lb)		
Dimensions (W x H x D)	8.66 x 4.92 x 4.92" (220 x 125 x 125 mm)		
Mounting hints	Normal position: horizontal onto DIN rail. Spacing to other modules: both sides min. 5 cm, vertical distances min. 8 cm		

Dimensions



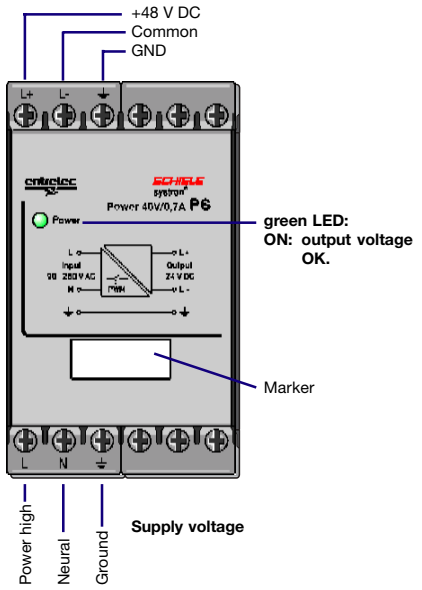
Switching Power Supply systron® PS



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- DIN Rail mount compact modules
- Low weight
- High efficiency
- Low heating
- Wide range of supply voltage
- Constant output voltage with good regulation
- UL, CSA listed, EN 50178 (VDE 0160)
- Short-circuit and overload proof
- Fused input

48 V DC / 0.7 A



- Approvals: cULus LISTED Class I & II, Div. 2

Power supply systron® PS	P/N:
systron® PS 48 V DC / 0.7 A	2 423 418 60

Technical data

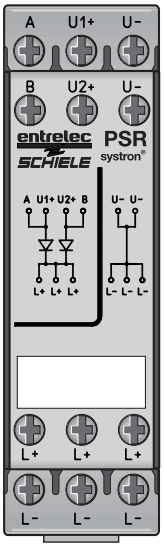
Input				
Supply voltage	90...260 V AC			
	105...260 V DC			
Frequency, AC input	47... 440 Hz			
Output load hold time	With input voltage drop out, min. 10 ms at 100% load			
Input current at nominal load	max. 0.8 A (90 V AC)/typ. 0.7 A (115 V AC)/typ. 0.35 A (230 V AC)			
Inrush current 25° C (≤ 2 ms)	33 A (260 V AC)			
Internal input fuse	3.0 A (slow blow)			
Output				
Output voltage	48 V DC ± 3 %			
Output current / power at...	0.7 A			
Current derating at temperature > 45°C	- 10 mA/°C			
Current derating at input voltage < 105 V AC / 120 V DC	- 6,667 mA/V			
Residual ripple / noise	max. 300 mVpp			
Deviation of output with input change	max. ± 0.5 %			
Deviation of output with static load change	max. ± 0.5 %			
Deviation of output with dynamic load change	max. 5 %			
Short circuit protection	overcurrent switch off with automatic restart			
Overload protection	overtemperature and overcurrent switch off			
Reset after thermal overload	disconnection of AC power input min. 30 s			
Norms, tests				
Electrical safety standards	EN 50178 (VDE 0160)/EN 60950/UL 508/CSA 22.2			
Galvanic isolation	reliable isolation acc. to EN 60950, DIN VDE 0106-101			
Voltage withstand input <-> output	2.5 kV AC, 3 kV AC type test			
Clearance and creepage distances according to	overvoltage category 2, pollution degree 2			
Electromagnetic immunity (EM) in acc. to EN 50082-2:	ESD:	EN 61000-4-2	level 3	6/8 kV
	RF field:	EN 61000-4-3	level 3	10 V/m
	Burst:	EN 61000-4-4	level 4	4 kV
	Surge:	EN 61000-4-5		3 kV
	conducted RF:	EN 61000-4-6	level 3	10 V
Electromagnetic compatibility (EMC) in acc. EN 50081-2	radiated noise EN 55011, class B			
Input current harmonics	no limitation			
Protection against contact				
Terminals	IP 20			
Housing	IP 30			
Protection class	1			
General characteristics				
Efficiency (nominal load)	approx. 83...85 % (90...260 V AC)			
Status indication	green LED, power OK			
Operating temperature	0° ... 55°C			
Storage temperature	-25° ... +75°C			
Terminals	screw terminals, 2 x 14 AWG (2.5 mm²)			
Weight	approx. 0.22 kg (0.49 lb)			
Dimensions (W x H x D)	1.77 x 3.07 x 3.94" (45 x 78 x 100 mm)			
Mounting hints	Normal position: horizontal onto DIN rail. Spacing to other modules: left side min. 1 cm, vertical distances min. 5 cm			

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Redundant Power Supply Switching Module

Operation

Monitors two Entrelec-Schiele switching power supplies, each up to 5 A maximum.
If one power supply fails, the module automatically switches to the alternate supply without interruption of load current.
Allow for one volt drop across module.
22.5 mm W x 78 mm H.

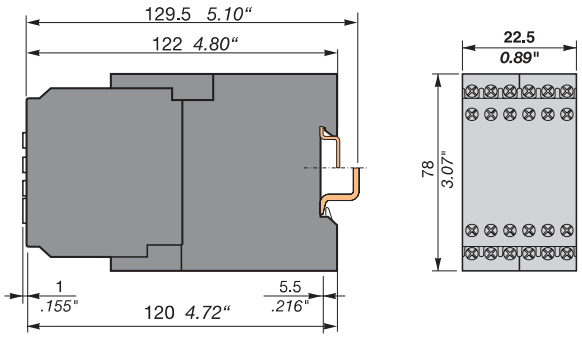


Approvals:

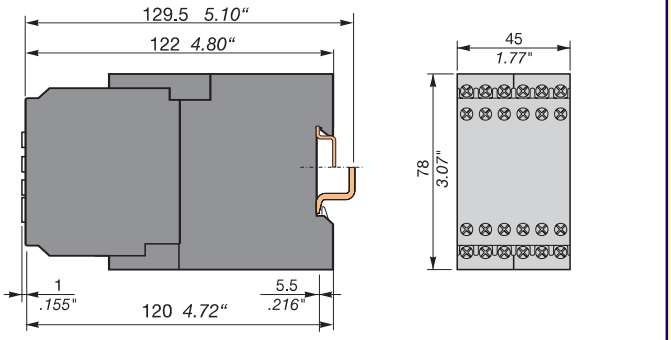
Type	P/N:
Redundant Power Supply Switching Module PSR	2 423 418 90

Mechanical Configuration of Power Supplies

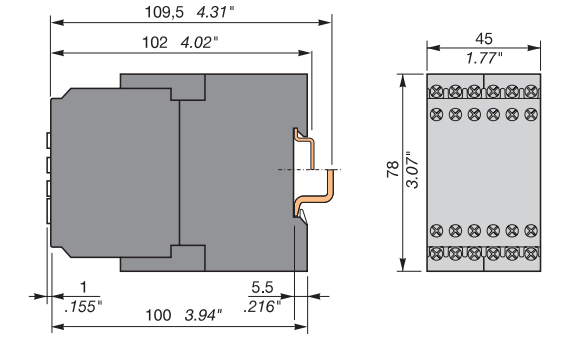
24 V / 0.5 A



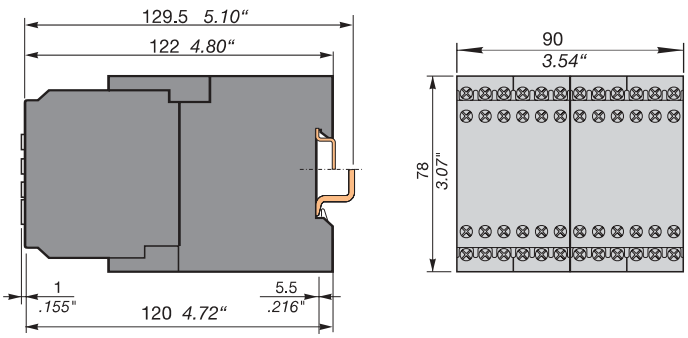
24 V / 2 A



5 V / 3 A, 6 V / 3 A, 12 V / 2 A, 24 V / 0.3 A, 24 V / 1 A, 24 V / 1.5 A, 48 V / 0.7 A



24 V / 4.2 A, 24 V / 5 A



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