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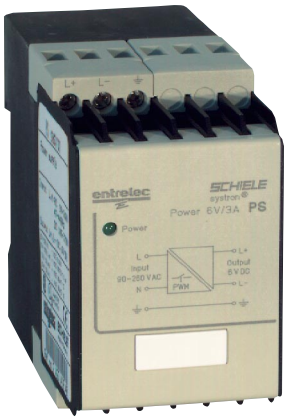
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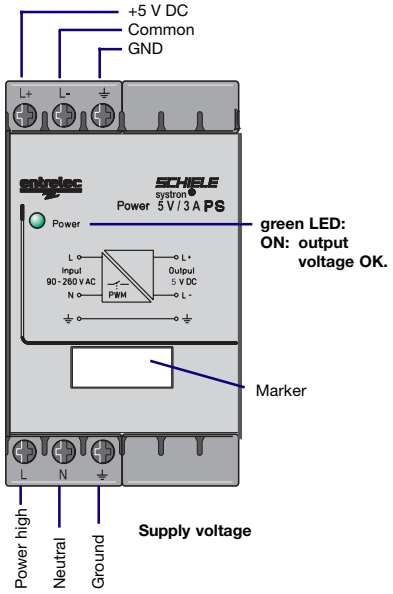
# Switching Power Supply systron® PS



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

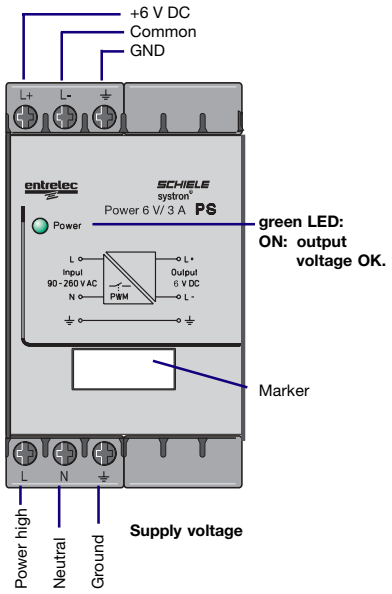
## 5 V DC / 3 A




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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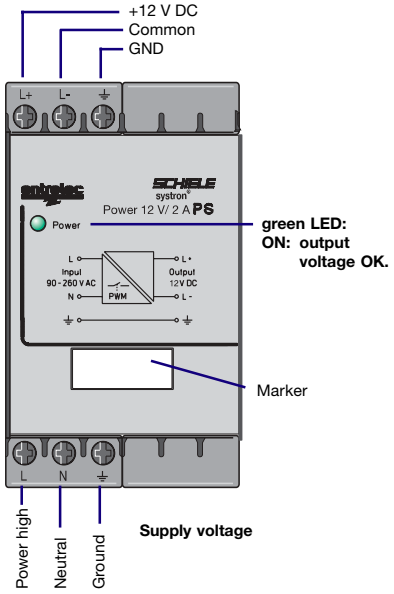
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- Short-circuit and overload proof
- Fused input
- Adjustable output voltage

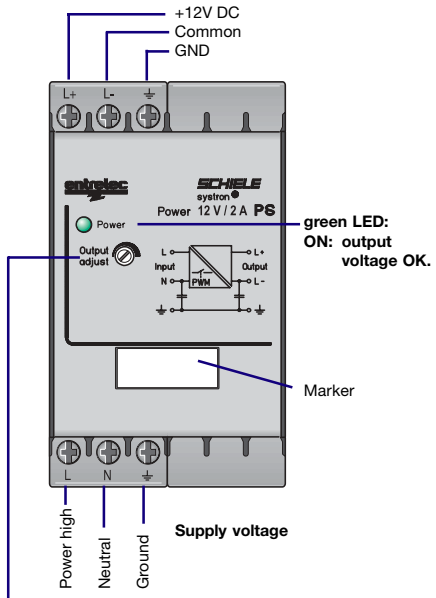
## 12 V DC / 2 A




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 |

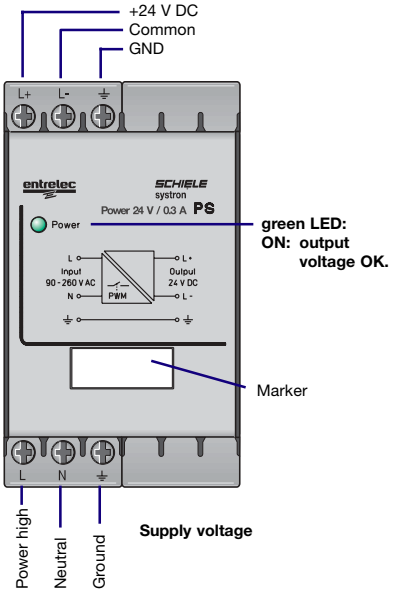
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- Constant output voltage with good regulation
- UL, CSA listed, EN 50178 (VDE 0160)
- Short-circuit and overload proof
- Fused input

## 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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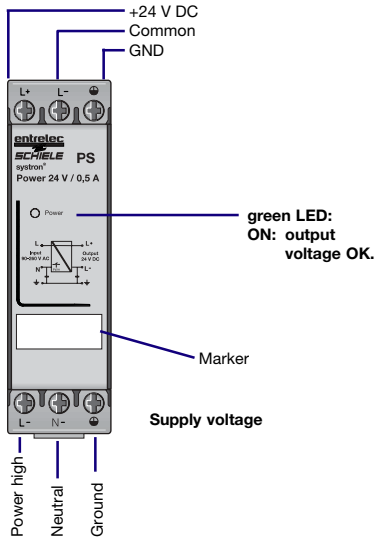
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- Short-circuit and overload proof
- Fused input

## 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 | | | |

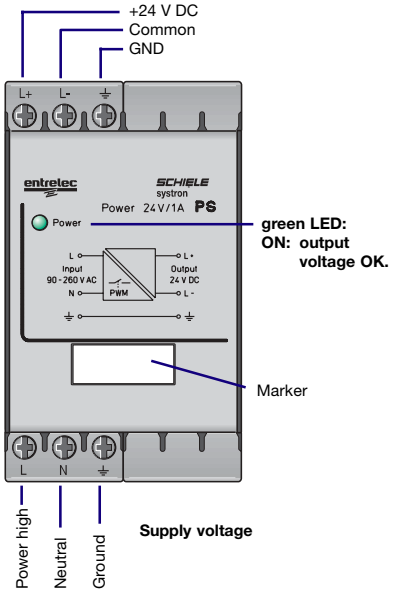
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- Short-circuit and overload proof
- Fused input
- Adjustable output voltage

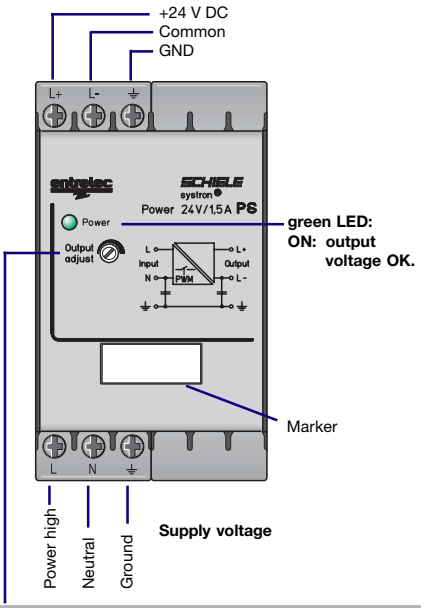
## 24 V DC / 1 A




■ 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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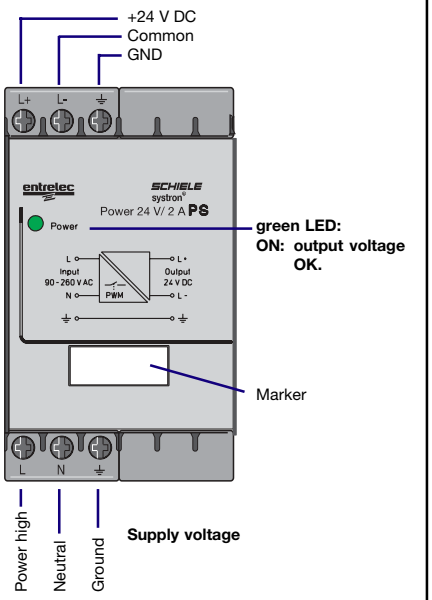
# Switching Power Supply systron® PS



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

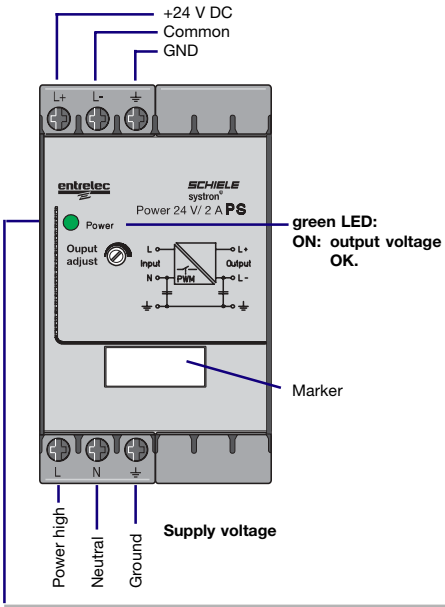
## 24 V DC / 2 A




■ 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 | |

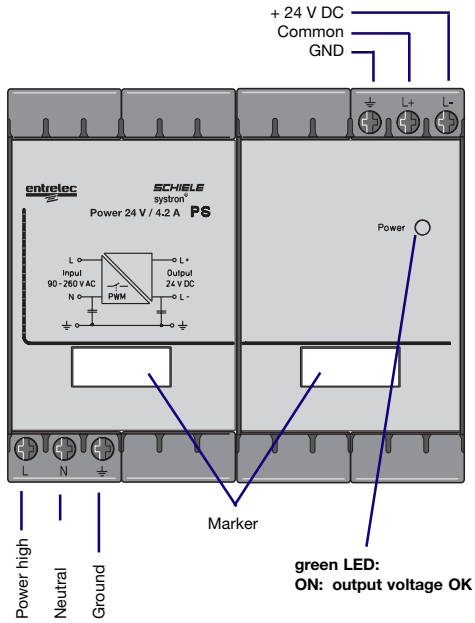
# Switching Power Supply systron® PS



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- 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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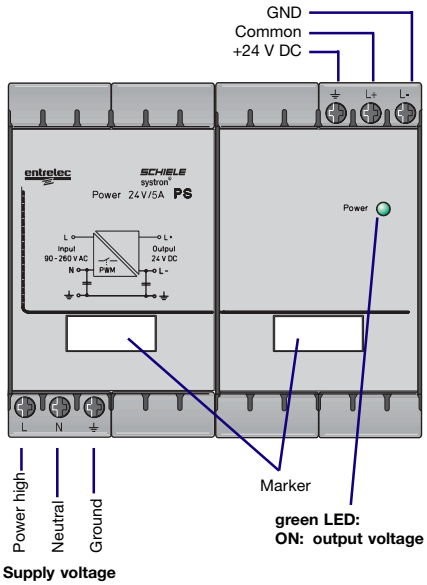
# Switching Power Supply systron® PS



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- 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

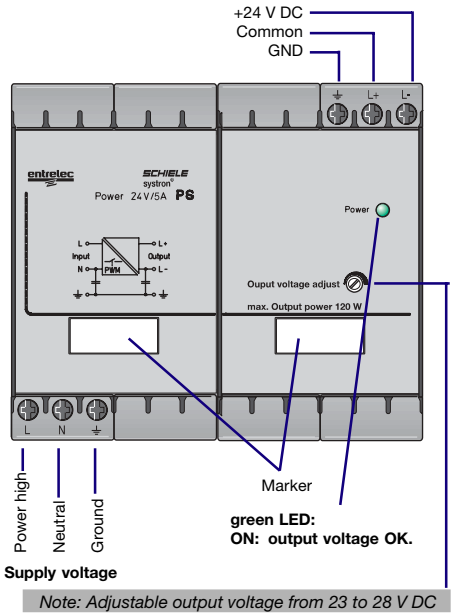
## 24 V DC / 5 A




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

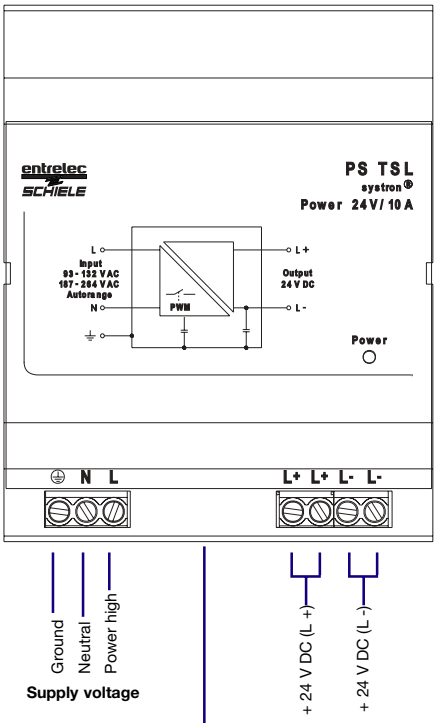


The switching power supplies, systron® PS TSL, offer many advantages over conventional power supplies:

- 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



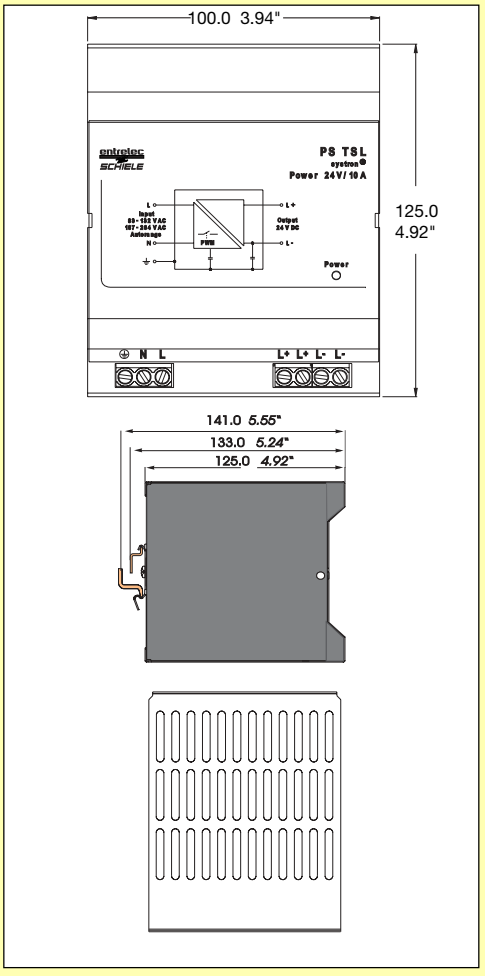

*Note: Adjustable output voltage from 24 to 28 V DC*

| 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 | | |

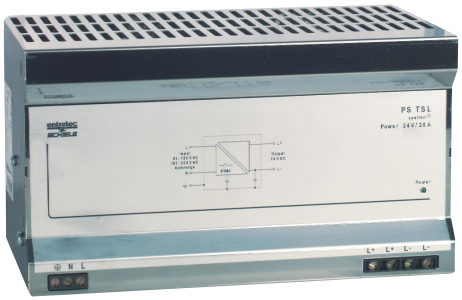
## Dimensions





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# Switching Power Supply systron® PS TSL

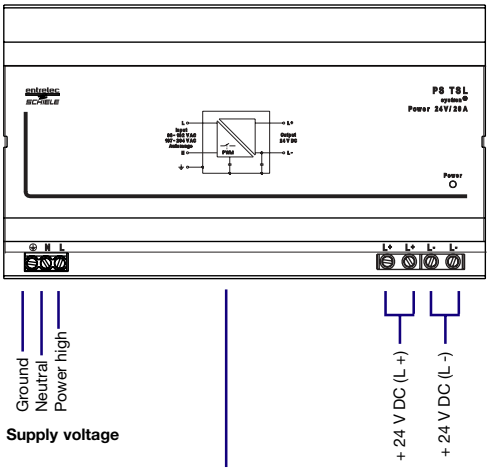


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- High efficiency
- Low heating
- Wide range of supply voltage
- Constant output voltage
- UL, cUL listed, EN 50178 (VDE 0160)
- Short-circuit and overload protection
- Fused input
- Adjustable output voltage
- Parallel operation up to 5 power supplies

- Approvals: cULus LISTED

## 24 V DC / 20 A



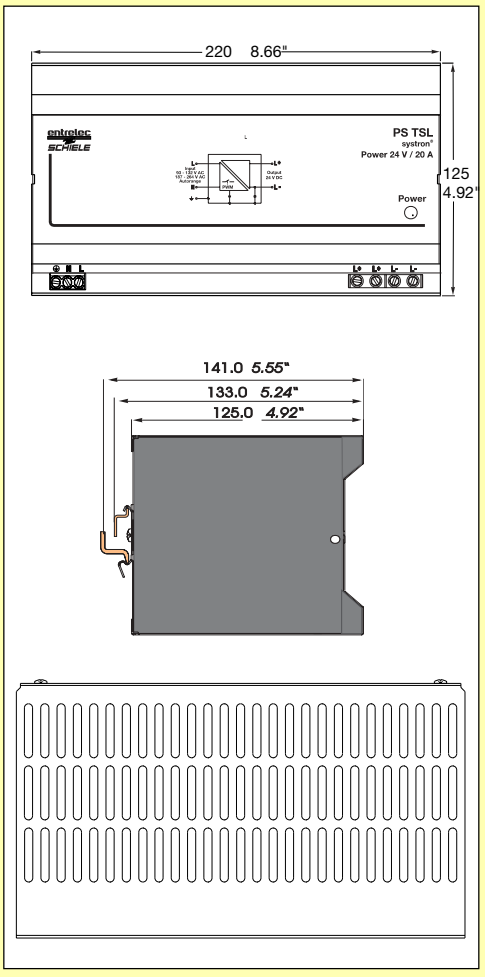

*Note: Adjustable output voltage from 24 to 28 V DC*

| 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



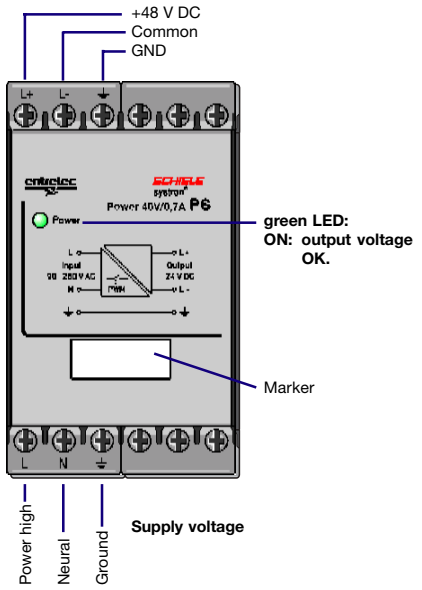
# Switching Power Supply systron® PS



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

## 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

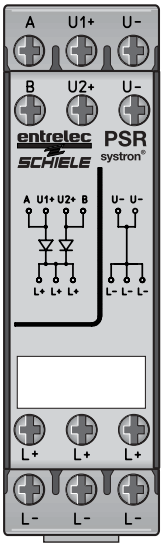
| | | | | |
|---|---|---|---|---|
| **Input** | | | | |
| Supply voltage | 90...260 V AC | | | |
| | 105...260 V DC | | | |
| Frequency, AC input | 47... 440 Hz | | | |
| Output load hold time | With input voltage drop out, min. 10 ms at 100% load | | | |
| Input current at nominal load | max. 0.8 A (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.

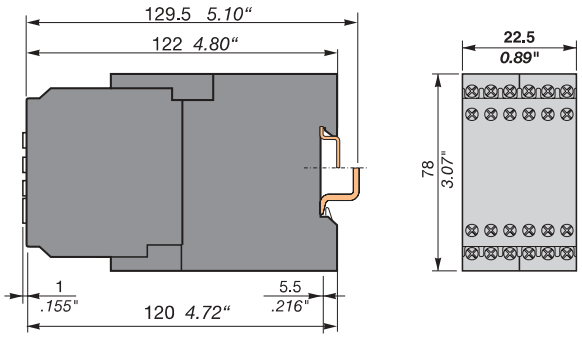



Approvals:

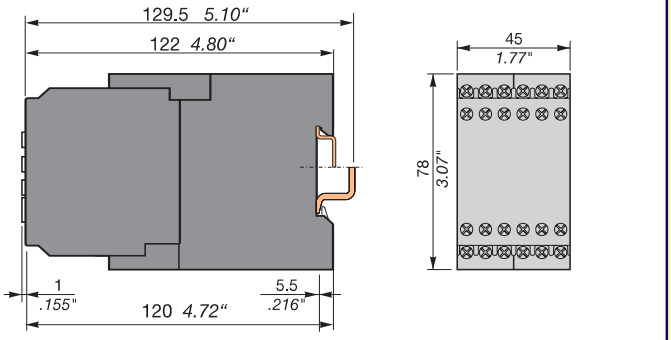
| Type | P/N: |
|---|---|
| Redundant Power Supply Switching Module PSR | 2 423 418 90 |

## Mechanical Configuration of Power Supplies

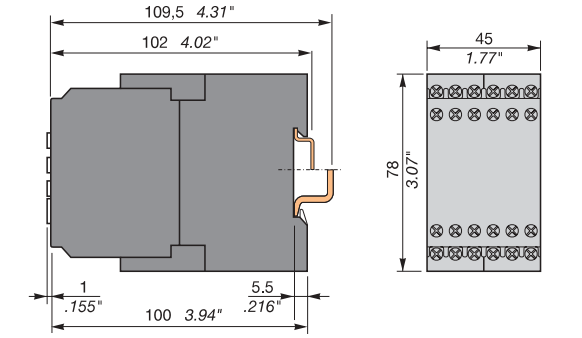
### 24 V / 0.5 A



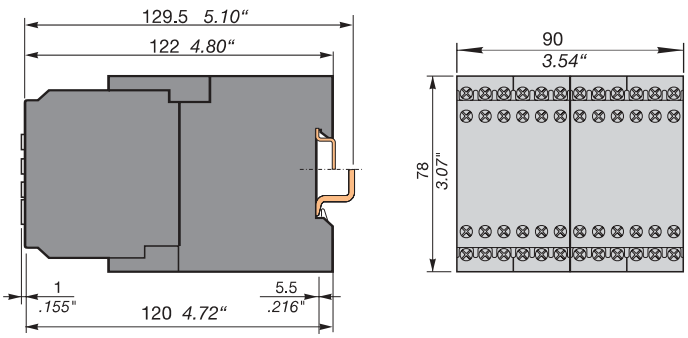

### 24 V / 2 A




### 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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