

1-phase Switch-mode power supplies connectPower INSTAPOWER CP SNT 24 W CP SNT 25 W CP SNT 48 W

NEW



Power supplies for DIN-rail mounting

- Output voltage adjustable via potentiometer
- Wide-range input: 85...264 VAC / 120...300 VDC (24 W) / 110...370 VDC (25/48W)
- LED status indicator (25/48 W)
- For TS 35 mounting rails
- Option for connecting in parallel
- International approvals for use world-wide



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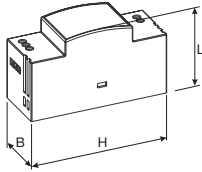
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Switch-mode power supplies

connectPower 1-phase

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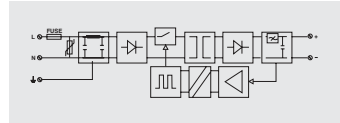
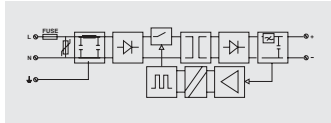
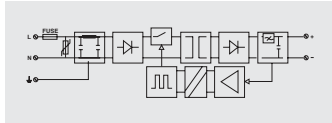
CP SNT 24 W 28 V 1 A



CP SNT 24 W 24 V 1 A



CP SNT 24 W 15 V 1.5 A



Technical data

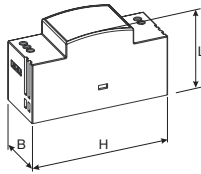
| Input | CP SNT 24 W 28 V 1 A | CP SNT 24 W 24 V 1 A | CP SNT 24 W 15 V 1.5 A |
|--|--|--|--|
| Input voltage | 85...265 VAC, 120...300 VDC | 85...265 VAC, 120...300 VDC | 85...265 VAC, 120...300 VDC |
| Input current | 460 mA @ 115 VAC; 250 mA @ 230 VAC | 460 mA @ 115 VAC; 250 mA @ 230 VAC | 460 mA @ 115 VAC; 250 mA @ 230 VAC |
| Frequency | 50 / 60 Hz | 50 / 60 Hz | 50 / 60 Hz |
| Starting current limit | 2 A slow-blow fuse (internal) | 2 A slow-blow fuse (internal) | 2 A slow-blow fuse (internal) |
| Input fuse low fuse | Varistor | Varistor | Varistor |
| Oversvoltage Protection | limited by Thermistor | limited by Thermistor | limited by Thermistor |
| Output | | | |
| Output voltage | 28 VDC | 24 VDC | 15 VDC |
| Output current | 1 A | 1 A | 1.5 A |
| Max. output power | 28 W | 24 W | 23 W |
| Residual ripple | < 2% | < 2% | < 2% |
| Overload protection | Oversvoltage / -thermal switch-off | Oversvoltage / -thermal switch-off | Oversvoltage / -thermal switch-off |
| Max. capacitance at output | 78% | 78% | 78% |
| Mains failure bridge-over time | 35 ms @ 115 VAC / 160 ms @ 230 VAC | 36 ms @ 115 VAC / 160 ms @ 230 VAC | 37 ms @ 115 VAC / 160 ms @ 230 VAC |
| Control at 10...100% load | 0.5% | 0.5% | 0.5% |
| Parallel operation | | | |
| Status display | No | No | No |
| General data | | | |
| Operation temperature | -20°C...+50°C | -20°C...+50°C | -20°C...+50°C |
| Storage temperature | -40°C...+85°C | -40°C...+85°C | -40°C...+85°C |
| Relative humidity | | | |
| Isolation input / output | | | |
| Standards | EN 50178, EN 60950, IEC950 | EN 50178, EN 60950, IEC950 | EN 50178, EN 60950, IEC950 |
| EMC standards | EN 50081-1, 2; EN 61000-6-2, 3; EN 50082-1 | EN 50081-1, 2; EN 61000-6-2, 3; EN 50082-1 | EN 50081-1, 2; EN 61000-6-2, 3; EN 50082-1 |
| Approvals | CSA / CE / cULus | CSA / CE / cULus | CSA / CE / cULus |
| Mounting position | Horizontal on TS 35 mounting rail | Horizontal on TS 35 mounting rail | Horizontal on TS 35 mounting rail |
| Assembly | | | |
| Dimensions | | | |
| Clamping range (rating- / min. / max.) | 2.5 / 0.5 / 4 | 2.5 / 0.5 / 4 | 2.5 / 0.5 / 4 |
| Length x width x height | 62.5 x 52 x 90.5 | 62.5 x 52 x 90.5 | 62.5 x 52 x 90.5 |
| Note | Derating: 33% @ 60°C | Derating: 33% @ 60°C | Derating: 33% @ 60°C |

Ordering data

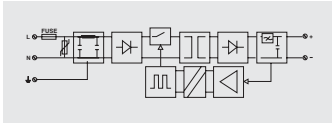
| Type | Part No. | Type | Part No. | Type | Part No. |
|-------------------|------------|-------------------|------------|---------------------|------------|
| CP SNT 24W 28V 1A | 9928890028 | CP SNT 24W 24V 1A | 9928890024 | CP SNT 24W 15V 1.5A | 9928890015 |

connectPower 1-phase

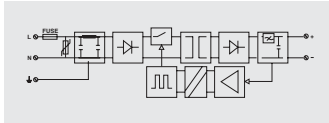
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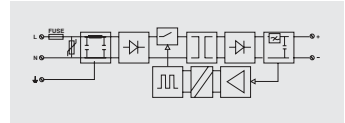
CP SNT 24 W 12 V 1.5 A



CP SNT 24 W 5 V 2 A



CP SNT 25 W 5 V 5 A



Technical data

Input

| | |
|-------------------------|------------------------------------|
| Input voltage | 85...265 VAC, 120...300 VDC |
| Input current | 460 mA @ 115 VAC; 250 mA @ 230 VAC |
| Frequency | 50 / 60 Hz |
| Starting current limit | 2 A slow-blow fuse (internal) |
| Input fuse low fuse | Varistor |
| Oversvoltage Protection | limited by Thermistor |

Output

| | |
|--------------------------------|------------------------------------|
| Output voltage | 12 VDC |
| Output current | 1.5 A |
| Max. output power | 18 W |
| Residual ripple | < 2% |
| Overload protection | Oversvoltage / -thermal switch-off |
| Max. capacitance at output | 78% |
| Mains failure bridge-over time | 37 ms @ 115 VAC / 160 ms @ 230 VAC |
| Control at 10...100% load | 0.5% |
| Parallel operation | |
| Status display | No |

General data

| | |
|--------------------------|--|
| Operation temperature | -20°C...+50°C |
| Storage temperature | -40°C...+85°C |
| Relative humidity | |
| Isolation input / output | |
| Standards | EN 50178, EN 60950, IEC950 |
| EMC standards | EN 50081-1, 2; EN 61000-6-2, 3; EN 50082-1 |
| Approvals | CSA / CE / cULus |
| Mounting position | Horizontal on TS 35 mounting rail |
| Assembly | |

Dimensions

| | |
|--|-----------------|
| Clamping range (rating- / min. / max.) | mm ² |
| Length x width x height | mm |

Note

Derating: 33% @ 60°C

| | |
|-------------------------|------------------------------------|
| Input voltage | 85...265 VAC, 120...300 VDC |
| Input current | 460 mA @ 115 VAC; 250 mA @ 230 VAC |
| Frequency | 50 / 60 Hz |
| Starting current limit | 2 A slow-blow fuse (internal) |
| Input fuse low fuse | Varistor |
| Oversvoltage Protection | limited by Thermistor |

| | |
|--------------------------------|------------------------------------|
| Output voltage | 5 VDC |
| Output current | 2 A |
| Max. output power | 10 W |
| Residual ripple | < 2% |
| Overload protection | Oversvoltage / -thermal switch-off |
| Max. capacitance at output | 78% |
| Mains failure bridge-over time | 37 ms @ 115 VAC / 160 ms @ 230 VAC |
| Control at 10...100% load | 0.5% |
| Parallel operation | |
| Status display | No |

Screw connection

| | |
|--|-----------------|
| Clamping range (rating- / min. / max.) | mm ² |
| Length x width x height | mm |

Derating: 33% @ 60°C

| | |
|-------------------------|------------------------------------|
| Input voltage | 85...265 VAC, 120...300 VDC |
| Input current | 460 mA @ 115 VAC; 250 mA @ 230 VAC |
| Frequency | 50 / 60 Hz |
| Starting current limit | 2 A slow-blow fuse (internal) |
| Input fuse low fuse | Varistor |
| Oversvoltage Protection | limited by Thermistor |

| | |
|--------------------------------|---|
| Output voltage | 4...8 VDC (adjustable via potentiometer) |
| Output current | 5 A |
| Max. output power | 25 W |
| Residual ripple | 120 mVss const. from |
| Overload protection | 105%...150% max. rated output power, automatic restart |
| Max. capacitance at output | > 70% |
| Mains failure bridge-over time | > 50 ms @ 230 VAC |
| Control at 10...100% load | 1% |
| Parallel operation | max. 3 devices (nominal voltages must be adjusted to ± 20 mV) |
| Status display | LED green |

Screw connection

| | |
|--|-----------------|
| Clamping range (rating- / min. / max.) | mm ² |
| Length x width x height | mm |

Derating: 33% @ 60°C

| | |
|-------------------------|-------------------------------|
| Input voltage | 85...264 VAC, 110...370 VDC |
| Input current | 500 mA @ 230 VAC |
| Frequency | 50 / 60 Hz |
| Starting current limit | 2 A slow-blow fuse (internal) |
| Input fuse low fuse | Varistor |
| Oversvoltage Protection | limited |

| | |
|--------------------------------|---|
| Output voltage | 4...8 VDC (adjustable via potentiometer) |
| Output current | 5 A |
| Max. output power | 25 W |
| Residual ripple | 120 mVss const. from |
| Overload protection | 105%...150% max. rated output power, automatic restart |
| Max. capacitance at output | > 70% |
| Mains failure bridge-over time | > 50 ms @ 230 VAC |
| Control at 10...100% load | 1% |
| Parallel operation | max. 3 devices (nominal voltages must be adjusted to ± 20 mV) |
| Status display | LED green |

Screw connection

| | |
|--|-----------------|
| Clamping range (rating- / min. / max.) | mm ² |
| Length x width x height | mm |

Derating: 33% @ 60°C

Ordering data

| Type | Part No. |
|------|----------|
|------|----------|

| | |
|---------------------|------------|
| CP SNT 24W 12V 1.5A | 9928890012 |
|---------------------|------------|

| Type | Part No. |
|------|----------|
|------|----------|

| | |
|------------------|------------|
| CP SNT 24W 5V 2A | 9928890005 |
|------------------|------------|

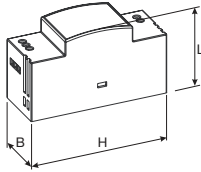
| Type | Part No. |
|------|----------|
|------|----------|

| | |
|------------------|------------|
| CP SNT 25W 5V 5A | 8754960000 |
|------------------|------------|

Switch-mode power supplies

connectPower 1-phase

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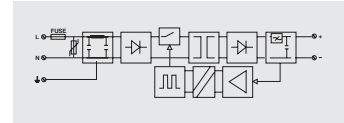
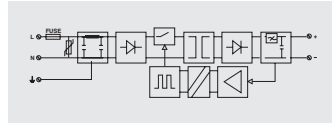
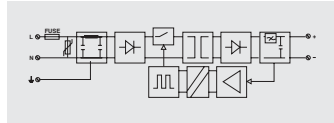
CP SNT 48W 12V 4A



CP SNT 48W 24V 2A



CP SNT 48W 48V 1A



Technical data

| Input | CP SNT 48W 12V 4A | CP SNT 48W 24V 2A | CP SNT 48W 48V 1A |
|--|---|---|---|
| Input voltage | 85...264 VAC; 110...370 VDC | 85...264 VAC; 110...370 VDC | 85...264 VAC; 110...370 VDC |
| Input current | 500 mA @ 230 VAC | 500 mA @ 230 VAC | 500 mA @ 230 VAC |
| Frequency | 50/60 Hz | 50/60 Hz | 50/60 Hz |
| Starting current limit | Fuse 2.5 A (T) / 250 V | Fuse 2.5 A (T) / 250 V | Fuse 2.5 A (T) / 250 V |
| Input fuse low fuse | Varistor | Varistor | Varistor |
| Overtoltage Protection | limited | limited | limited |
| Output | | | |
| Output voltage | 9...15 VDC (adjustable via potentiometer) | 15...28 VDC (adjustable via potentiometer) | 46...55 VDC (adjustable via potentiometer) |
| Output current | 4 A | 2 A | 1 A |
| Max. output power | 48 W | 48 W | 48 W |
| Residual ripple | 120 mVss const. from | 120 mVss const. from | 120 mVss const. from |
| Overload protection | 105%...150% max. rated output power, automatic restart | 105%...150% max. rated output power, automatic restart | 105%...150% max. rated output power, automatic restart |
| Max. capacitance at output | > 75% | > 78% | > 80% |
| Mains failure bridge-over time | > 50 ms @ 230 VAC | > 50 ms @ 230 VAC | > 50 ms @ 230 VAC |
| Control at 10...100% load | 1% | 1% | 1% |
| Parallel operation | max. 3 devices (nominal voltages must be adjusted to +/- 20 mv) | max. 3 devices (nominal voltages must be adjusted to +/- 20 mv) | max. 3 devices (nominal voltages must be adjusted to +/- 20 mv) |
| Status display | LED green | LED green | LED green |
| General data | | | |
| Operation temperature | -10°C...+70°C (derating from 55°C) | -10°C...+70°C (derating from 55°C) | -10°C...+70°C (derating from 55°C) |
| Storage temperature | -20°C...+85°C | -20°C...+85°C | -20°C...+85°C |
| Relative humidity | Up to 95% at 40°C, no condensation | Up to 95% at 40°C, no condensation | Up to 95% at 40°C, no condensation |
| Isolation input / output | 3 kV AC | 3 kV AC | 3 kV AC |
| Standards | EN 60950 (SELV), EN 50178 (PELV) | EN 60950 (SELV), EN 50178 (PELV) | EN 60950 (SELV), EN 50178 (PELV) |
| EMC standards | EN 61000-6-2 /-3 /-4, EN 55011, EN 55022, EN 61000-3-2 /-3 | EN 61000-6-2 /-3 /-4, EN 55011, EN 55022, EN 61000-3-2 /-3 | EN 61000-6-2 /-3 /-4, EN 55011, EN 55022, EN 61000-3-2 /-3 |
| Approvals | CE / UL 508 / cURus 60950 / GS | CE / UL 508 / cURus 60950 / GS | CE / UL 508 / cURus 60950 / GS |
| Mounting position | Horizontal on TS 35 mounting rail | Horizontal on TS 35 mounting rail | Horizontal on TS 35 mounting rail |
| Assembly | Mount side-by-side; clearance above/below > 30 mm | Mount side-by-side; clearance above/below > 30 mm | Mount side-by-side; clearance above/below > 30 mm |
| | ca. 0.2 kg | ca. 0.2 kg | ca. 0.2 kg |
| Dimensions | | | |
| Clamping range (rating- / min. / max.) | mm ² 2.5/ 0.5 / 4 | 2.5/ 0.5 / 4 | 2.5/ 0.5 / 4 |
| Length x width x height | mm 62.5 x 70 x 90.5 | 62.5 x 70 x 90.5 | 62.5 x 70 x 90.5 |
| Note | | | |
| Ordering data | | | |
| Type | Part No. | Type | Part No. |
| CP SNT 48W 12V 4A | 8754970000 | CP SNT 48W 24V 2A | 8739140000 |
| | | CP SNT 48W 48V 1A | 8879230000 |