

1-phase Switch-mode power supplies connectPower INSTAPOW^{ER} 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

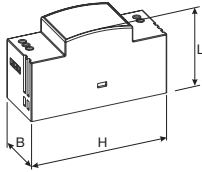


Weidmüller 

Switch-mode power supplies

connectPower 1-phase

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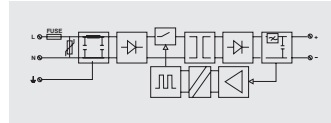
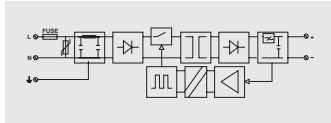
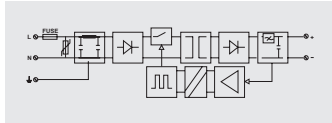
CP SNT 24 W 28 V 1 A



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 |

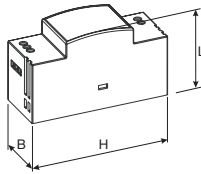
Ordering data

| 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 |

Switch-mode power supplies

connectPower 1-phase

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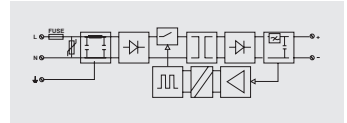
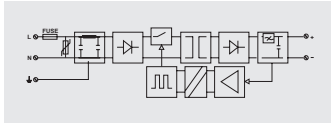
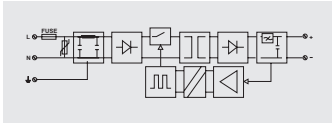
CP SNT 24 W 12 V 1.5 A



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 |
| Overvoltage Protection | limited by Thermistor |
| Output | |
| Output voltage | 12 VDC |
| Output current | 1.5 A |
| Max. output power | 18 W |
| Residual ripple | < 2% |
| Overload protection | Overvoltage / -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

| | |
|--------------------------|--|
| 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

Screw connection

| | |
|--|------------------|
| Clamping range (rating- / min. / max.) | 2.5/ 0.5 / 4 |
| Length x width x height | 62.5 x 52 x 90.5 |
| Derating: 33% @ 60°C | |

Screw connection

| | |
|--|------------------|
| Clamping range (rating- / min. / max.) | 2.5/ 0.5 / 4 |
| Length x width x height | 62.5 x 52 x 90.5 |
| Derating: 33% @ 60°C | |

Screw connection

| | |
|--|------------------|
| Clamping range (rating- / min. / max.) | 2.5/ 0.5 / 4 |
| Length x width x height | 62.5 x 70 x 90.5 |

Ordering data

| | |
|---------------------|------------|
| Type | Part No. |
| CP SNT 24W 12V 1.5A | 9928890012 |

| | |
|------------------|------------|
| Type | Part No. |
| CP SNT 24W 5V 2A | 9928890005 |

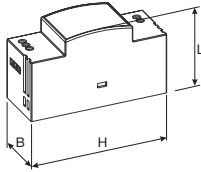
| | |
|------------------|------------|
| Type | Part No. |
| CP SNT 25W 5V 5A | 8754960000 |

| | |
|------------------|------------|
| Type | Part No. |
| CP SNT 25W 5V 5A | 8754960000 |

Switch-mode power supplies

connectPower 1-phase

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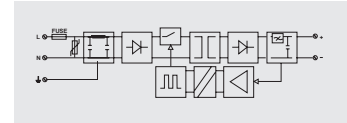
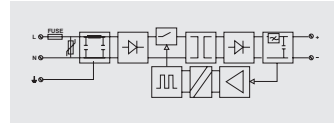
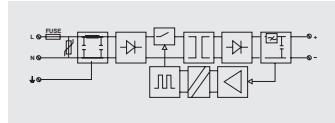
CP SNT 48W 12V 4A



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.) | 2.5/ 0.5 / 4 mm ² | 2.5/ 0.5 / 4 | 2.5/ 0.5 / 4 |
| Length x width x height | 62.5 x 70 x 90.5 mm | 62.5 x 70 x 90.5 | 62.5 x 70 x 90.5 |
| Note | | | |
| Ordering data | | | |
| Type | CP SNT 48W 12V 4A | CP SNT 48W 24V 2A | CP SNT 48W 48V 1A |
| Part No. | 8754970000 | 8739140000 | 8879230000 |

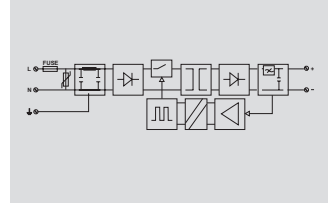
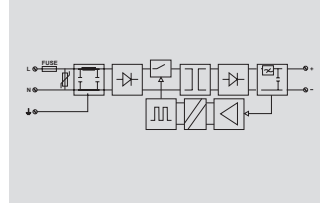
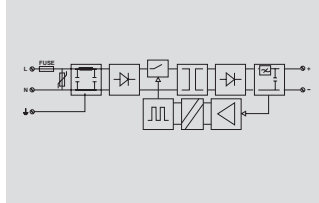
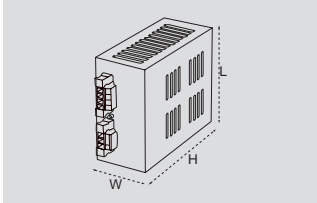
Switch-mode power supplies

Connect power 1-phase INSTA

CP SNT 24W 28V 1A

CP SNT 24W 24V 1A

CP SNT 24W 15V 1.5A



Technical data

Input

Input voltage
Input current
Frequency
Making current limit
Input fuse
Overvoltage protection

85...265 Vac, 120...300 Vdc
460 mA @ 115 Vac; 250 mA @ 230 Vac
50/ 60 Hz
Thermistor
2A slow fuse (internal)
Varistor

Output

Output voltage
Output current
Max. output power
Residual ripple
Overload protection
Overvoltage protection
Mains failure bridge-over time at 115 Vac
Mains failure bridge-over time at 230 Vac
Control at 10...100% load
Max. capacitance at output

28 Vdc
1 A
28W
< 0.2 %
Overvoltage / -thermal switch-off
Varistor
35ms
160ms
0.5 %
8000 µF

Insulation coordination

Galvanic isolation output-earth
Galvanic isolation input-earth
Galvanic isolation input-output
Galvanic isolation input/output-rail

500 V RMS
1.5 kV RMS
3 kV RMS
4 kV RMS

General data

Operation temperature
Storage temperature
Degree of efficiency
Standards
Approvals
EMC standards

-20 °C...+50 °C
-40 °C...+85 °C
78%
EN 50178, EN 60950, IEC950
CSA / UL/UR / CE
EN 50081-1, 2; IEC 61000-6-2, 3; EN 50082-1

Clamping range (rating- / min. / max.) mm²
Length x width x height mm

Screw connection

4 / 0.10 / 4
90.5 x 52.0 x 62.5

Information

Derating: 33% @ 60 °C

85...265 Vac, 120...300 Vdc
460 mA @ 115 Vac; 250 mA @ 230 Vac
50/ 60 Hz
Thermistor
2A slow fuse (internal)
Varistor

24 Vdc
1 A
24W
< 0.2 %
Overvoltage / -thermal switch-off
Varistor
35ms
160ms
0.5 %
8000 µF

500 V RMS
1.5 kV RMS
3 kV RMS
4 kV RMS

-20 °C...+50 °C
-40 °C...+85 °C
78%
EN 50178, EN 60950, IEC950
CSA / UL/UR
EN 50081-1, 2; IEC 61000-6-2, 3; EN 50082-1

Screw connection

4 / 0.10 / 4
90.5 x 52.0 x 62.5

Derating: 33% @ 60 °C

85...265 Vac, 120...300 Vdc
460 mA @ 115 Vac; 250 mA @ 230 Vac
50/ 60 Hz
Thermistor
2A slow fuse (internal)
Varistor

15 Vdc
1.5 A
22.50W
< 0.2 %
Overvoltage / -thermal switch-off
Varistor
35ms
160ms
0.5 %
8000 µF

500 V RMS
1.5 kV RMS
3 kV RMS
4 kV RMS

-20 °C...+50 °C
-40 °C...+85 °C
78%
EN 50178, EN 60950, IEC950
CSA / UL/UR / CE
EN 50081-1, 2; IEC 61000-6-2, 3; EN 50082-1

Screw connection

4 / 0.10 / 4
90.5 x 52.0 x 62.5

Derating: 33% @ 60 °C

Ordering data

| Type | (Qty.=1) | Order No. |
|-------------------|----------|------------|
| CP SNT 24W 28V 1A | | 9928890028 |

| Type | (Qty.=1) | Order No. |
|-------------------|----------|------------|
| CP SNT 24W 24V 1A | | 9928890024 |

| Type | (Qty.=1) | Order No. |
|---------------------|----------|------------|
| CP SNT 24W 15V 1.5A | | 9928890015 |

Information

Accessories

Information

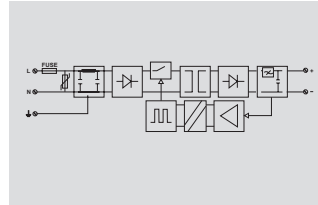
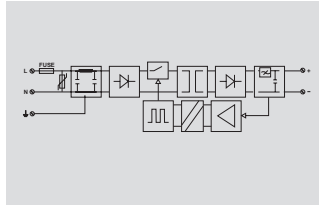
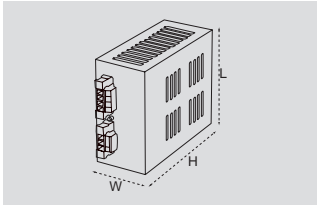
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Delivery times see page X.2

Switch-mode power supplies

Connect power 1-phase INSTA

CP SNT 24W 12V 1.5A

CP SNT 24W 5V 2A



Technical data

Input

Input voltage
Input current
Frequency
Making current limit
Input fuse
Overvoltage protection

85...265 Vac, 120...300 Vdc
460 mA @ 115 Vac; 250 mA @ 230 Vac
50/ 60 Hz
Thermistor
2A slow fuse (internal)
Varistor

85...265 Vac, 120...300 Vdc
460 mA @ 115 Vac; 250 mA @ 230 Vac
50/ 60 Hz
Thermistor
2A slow fuse (internal)
Varistor

Output

Output voltage
Output current
Max. output power
Residual ripple
Overload protection
Overvoltage protection
Mains failure bridge-over time at 115 Vac
Mains failure bridge-over time at 230 Vac
Control at 10...100% load
Max. capacitance at output

12 Vdc
1.5 A
18W
< 0.2 %
Overvoltage / -thermal switch-off
Varistor
35ms
160ms
0.5 %
8000 µF

5 Vdc
2 A
10W
< 0.2 %
Overvoltage / -thermal switch-off
Varistor
35ms
160ms
0.5 %
8000 µF

Insulation coordination

Galvanic isolation output-earth
Galvanic isolation input-earth
Galvanic isolation input-output
Galvanic isolation input/output-rail

500 V RMS
1.5 kV RMS
3 kV RMS
4 kV RMS

500 V RMS
1.5 kV RMS
3 kV RMS
4 kV RMS

General data

Operation temperature
Storage temperature
Degree of efficiency
Standards
Approvals
EMC standards

-20 °C...+50 °C
-40 °C...+85 °C
78%
EN 50178, EN 60950, IEC950
CSA / UL/UR / CE
EN 50081-1, 2; IEC 61000-6-2, 3; EN 50082-1

-20 °C...+50 °C
-40 °C...+85 °C
78%
EN 50178, EN 60950, IEC950
CSA / UL/UR / CE
EN 50081-1, 2; IEC 61000-6-2, 3; EN 50082-1

Clamping range (rating- / min. / max.) mm²
Length x width x height mm

Screw connection

4 / 0.10 / 4
90.5 x 52.0 x 62.5
Derating: 33% @ 60 °C

Screw connection

4 / 0.10 / 4
90.5 x 52.0 x 62.5
Derating: 33% @ 60 °C

Ordering data

| Type | (Qty.=1) | Order No. |
|---------------------|----------|------------|
| CP SNT 24W 12V 1.5A | | 9928890012 |

| Type | (Qty.=1) | Order No. |
|------------------|----------|------------|
| CP SNT 24W 5V 2A | | 9928890005 |

Information

Accessories

Information

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Delivery times see page X.2