



General ordering data

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| Order No. | 9916250024 |
| Part designation | CP SNT 300W 24V 12.5A |
| Version | Switched-mode power supplies, 86...265 V AC, 100...200 V DC; type 115...230 V AC , single-phase, 22...28 V DC adjustable |
| EAN | 4032248217762 |
| Qty. | 1 pc(s). |

Input

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|--------------------------|--|
| Connection system | Screw connection |
| Input current | 3.3 A @ 115 V AC; 1.65 A @ 230 V AC |
| Input current at 100 Vdc | 3.7A +/- 10% |
| Input current at 115 Vac | 3.3A +/- 10% |
| Input current at 200 Vdc | 1.85A +/- 10% |
| Input current at 230 Vac | 1.65A +/- 10% |
| Input frequency | 50/ 60 Hz |
| Input fuse | Thermistor |
| Input voltage | 86...265 V AC, 100...200 V DC; type 115...230 V AC |
| Max. connection range | AWG26-12 (0.1-4.0 mm ²) |
| Power factor input | 0.99 (PFC) |
| Remote activation on/off | REMOTE on/off, via external switching contact that can switch the power supply unit on or off with 12 Vdc to 24 Vdc. |
| Surge protection | Varistor |
| Turn-on current limit | Thermistor |

output

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|---|-------------------------------------|
| Connection system | Screw connection |
| Control at 10...100% load | 0.2 % |
| Control at input voltage | 0.1 % |
| Mains failure bridge-over time | 40 ms @ 115 V AC / 40 ms @ 230 V AC |
| Mains failure bridge-over time for 115 V AC | 40 ms |
| Mains failure bridge-over time for 230 V AC | 40 ms |

output

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|-------------------------------|--|
| Max. capacitance at output | 10000 µF |
| Max. connection range | AWG26-12 (0.1-4.0 mm ²) |
| Max. output power | 300 W |
| Max. residual ripple | at 100 kHz: 2 mV At 120 Hz: 20 mV AC |
| Monitoring function | Output voltage, current, temperature |
| Output current | 12.5 A |
| Output voltage | 22...28 V DC adjustable |
| Overload protection | Overload current and surge protection |
| Parallel connection option | Yes, max. 5 devices, active current splitting |
| Signalling delay | 2 s |
| Status relay / CO contact | 1 CO contact, closed-circuit current principle |
| Voltage stability at 115 V AC | 40 ms |
| Voltage stability at 230 V AC | 40 ms |

General data

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|-----------------------------------|---|
| DIN Rail compatibility | TS 35 |
| Degree of efficiency at max. load | 80 % |
| Derating | Derating: 20% @ 60°C |
| EMC standards | EN 55011, EN 55022, EN 55024, EN 61000-6-2, 3 |
| Housings | metal |
| Low Voltage Directive | 73/ 23/ EWG |
| Making time at 115 Vac | 1.5 ms |
| Power factor correction | PFC passive |
| Standards | EN 50178, EN 60950, IEC950 |
| Status indication | Current limiting: LED yellow / Error: LED red/ On: LED green |
| Switching frequency | 100 kHz |
| Turn-on time at 230 Vac | 0.7 ms |
| Weight | 1,180 g |
| Ambient temperature (operational) | -15°C...+50°C (at 100% duty cycle) |
| Storage temperature | -40 °C...+85 °C |

Insulation coordination

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|-----------------------------------|--|
| Galvanic isolation, I/O rail | 4 kV |
| Galvanic isolation, input-earth | 1.5 kV |
| Galvanic isolation, input-output | 3 kV |
| Galvanic isolation, output-earth | 0.5 kV |
| Humidity at operating temperature | 20 - 85% RH without condensation |
| Humidity at storage temperature | 20 to 90% RH without condensation |
| Insulation strength | I/O: 3000 V rms, I/O: TS:4000 V rms, Input/PE: 2500 V rms, Output/PE: 500 V rms |
| Protection class | IP 20 |

Approvals

Approvals institutes



Classifications

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|------------|-------------|
| eClass 4.1 | 27-24-04-10 |
| eClass 5.0 | 27-24-22-13 |
| eClass 5.1 | 27-04-90-02 |

Similar products

| Order No. | Part designation | Version |
|------------|-------------------------|---|
| 9927480048 | CP SNT 55W 48V 1.04A | Switched-mode power supplies, 85...265 V AC, 120...300 V DC , single-phase, 48 V DC |
| 9927480024 | CP SNT 55W 24-28V 2.3A | Switched-mode power supplies, 85...265 V AC, 120...300 V DC , single-phase, 24...28 V DC |
| 9927480012 | CP SNT 55W 12-15V 3A | Switched-mode power supplies, 85...265 V AC, 120...300 V DC , single-phase, 12...15 V DC |
| 9927480005 | CP SNT 55W 5V 3A | Switched-mode power supplies, 85...265 V AC, 120...300 V DC , single-phase, 5 V DC |
| 9925340048 | CP SNT 160W 48V 3.5A | Switched-mode power supplies, Min. 85/138 V AC, max. 195/250 V AC, typ. 115...230 V AC , single-phase, 48 V DC |
| 9925340024 | CP SNT 160W 24-28V 6.5A | Switched-mode power supplies, Min. 85/138 V AC, max. 195/250 V AC, typ. 115...230 V AC , single-phase, 24...28 V DC |
| 9925340012 | CP SNT 160W 12-15V 8A | Switched-mode power supplies, Min. 85/138 V AC, max. 195/250 V AC, typ. 115...230 V AC , single-phase, 12...15 V DC |
| 9925340005 | CP SNT 160W 5V 8A | Switched-mode power supplies, Min. 85/138 V AC, max. 195/250 V AC, typ. 115...230 V AC , single-phase, 5 V DC |