SIEMENS

Product data sheet

| | LOGO!POWER 24 V/2.5 A STABILIZED POWER SUPPLY INPUT: 100-240 V AC (110-300 V DC) OUTPUT: 24 V/2.5 A DC |
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| Technical specifications | |
| Product | LOGO!Power |
| Power supply, type | 24 V/2.5 A |
| Input | |
| Input | 1-phase AC or DC |
| Supply voltage / with AC / minimum rated value | 100 V |
| Supply voltage / with AC / maximum rated value | 240 V |
| Supply voltage | |
| • with AC | 85 264 V |
| Input voltage / for DC | 110 300 V |
| Wide-range input | Yes |
| Overvoltage resistance | 2.3 × Vin rated, 1.3 ms |
| Mains buffering at lout rated, min. | 40 ms |
| Mains buffering | at Vin = 187 V |
| Rated line frequency | 50 / 60 Hz |
| Rated line range | 47 63 Hz |
| Input current / at rated input voltage 120 V | 1.22 A |
| Input current / at rated input voltage 230 V | 0.66 A |
| Switch-on current limiting (+25 °C), max. | 46 A |
| l²t, max. | 3 A²-s |
| Built-in incoming fuse | internal |
| Protection in the mains power input (IEC 898) | Recommended miniature circuit breaker: from 16 A characteristic B or from 10 A characteristic C |
| Output | |
| Output | Controlled, isolated DC voltage |
| Rated voltage Vout DC | 24 V |
| Total tolerance, static ± | 3 % |
| Static mains compensation, approx. | 0.1 % |
| Static load balancing, approx. | 1.5 % |
| Residual ripple peak-peak, max. | 200 mV |
| Residual ripple peak-peak, typ. | 10 mV |
| Spikes peak-peak, max. (bandwidth: 20 MHz) | 300 mV |

| Spikes peak-peak, typ. (bandwidth: 20 MHz) | 50 mV |
|---|--|
| Adjustment range | 22.2 26.4 V |
| Product function / Output voltage adjustable | Yes |
| Output voltage setting | via potentiometer |
| Status display | Green LED for output voltage OK |
| On/off behavior | No overshoot of Vout (soft start) |
| Startup delay, max. | 0.5 s |
| Voltage rise, typ. | 10 ms |
| Rated current value lout rated | 2.5 A |
| Current range | 0 2.5 A |
| Note | +55 +70 °C: Derating 2%/K |
| Active power supplied / typical | 60 W |
| Parallel switching for enhanced performance | Yes |
| Numbers of parallel switchable units for enhanced performance | 2 |
| Efficiency | |
| Efficiency at Vout rated, lout rated, approx. | 88 % |
| Power loss at Vout rated, lout rated, approx. | 8 W |
| Active power loss / during no-load operation / maximum | 1.8 W |
| Closed-loop control | |
| Dynamic mains compensation (Vin rated ±15 %), max. | 0.2 % |
| Dynamic load smoothing (lout: 10/90/10 %), Uout ± typ. | 2 % |
| Load step setting time 10 to 90%, typ. | 1 ms |
| Load step setting time 90 to 10%, typ. | 1 ms |
| Protection and monitoring | |
| Output overvoltage protection | Yes, according to EN 60950-1 |
| Current limitation, typ. | 3.3 A |
| Property of the output / Short-circuit proof | Yes |
| Short-circuit protection | Constant current characteristic |
| Enduring short circuit current / RMS value / maximum | 4.8 A |
| Overload/short-circuit indicator | - |
| Safety | |
| Primary/secondary isolation | Yes |
| Galvanic isolation | Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 |
| Protection class | Class II (without protective conductor) |
| CE mark | Yes |
| UL/CSA approval | Yes |
| UL/cUL (CSA) approval | cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cURus- Recognized (UL 60950, CSA C22.2 No. 60950), File E151273, NEC class 2 (acc. to UL 1310) |

| Explosion protection | ATEX (EX) II 3G Ex nA IIC T3; cCSAus (CSA C22.2 No. 213-M1987, ANSI/ISA-12.12.01-2007) Class I, Div. 2, Group ABCD, T4 |
|---|--|
| FM approval | Class I, Div. 2, Group ABCD, T4 |
| CB approval | Yes |
| Marine approval | GL, ABS, BV, DNV, LRS |
| Degree of protection (EN 60529) | IP20 |
| EMC | |
| Emitted interference | EN 55022 Class B |
| Supply harmonics limitation | not applicable |
| Noise immunity | EN 61000-6-2 |
| Operating data | |
| Ambient temperature / during operation | -20 +70 °C |
| • Note | with natural convection |
| Ambient temperature / during transport | -40 +85 °C |
| Ambient temperature / during storage | -40 +85 °C |
| Humidity class according to EN 60721 | Climate class 3K3, no condensation |
| Mechanics | |
| Connection technology | screw-type terminals |
| Connections / Supply input | L, N: 1 screw terminal each for 0.5 2.5 mm2 single-core/finely stranded |
| Connections / Output | +, -: 2 screw terminals each for 0.5 2.5 mm ² |
| Connections / Auxiliary | - |
| Width / of the enclosure | 72 mm |
| Height / of the enclosure | 90 mm |
| Depth / of the enclosure | 52.6 mm |
| Installation width | 72 mm |
| Mounting height | 130 mm |
| Weight, approx. | 0.25 kg |
| Product property / of the enclosure / housing for side-by-side mounting | Yes |
| Mounting type / wall mounting | No |
| Mounting type / Standard rail mounting | Yes |
| Mounting type / S7 rail mounting | No |
| Installation | Snaps onto DIN rail EN 60715 35x7.5/15 |
| Other information | Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified) |

letzte Änderung:

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