SIEMENS

Data sheet 6EP1334-1LB00



SITOP PSU100L/1AC/24VDC/10A

SITOP PSU100L 24 V/10 A Stabilized power supply input: 120/230 V AC, output: DC 24 V/10 A

| Input | |
|--|---|
| Input | 1-phase AC |
| • Note | Set by means of selector switch on the device |
| supply voltage | |
| 1 at AC rated value | 120 V |
| 2 at AC rated value | 230 V |
| input voltage | |
| • 1 at AC | 93 132 V |
| • 2 at AC | 187 264 V |
| Wide-range input | No |
| Overvoltage resistance | 2.3 × Vin rated, 1.3 ms |
| Mains buffering | at Vin = 93/187 V |
| Mains buffering at lout rated, min. | 20 ms; at Vin = 93/187 V |
| Rated line frequency 1 | 50 Hz |
| Rated line frequency 2 | 60 Hz |
| Rated line range | 47 63 Hz |
| input current | |
| at rated input voltage 120 V | 4.1 A |
| at rated input voltage 230 V | 2 A |
| Switch-on current limiting (+25 °C), max. | 65 A |
| duration of inrush current limiting at 25 °C | |
| • typical | 3 ms |
| I²t, max. | 3.3 A ² ·s |
| Built-in incoming fuse | T 6.3 A/250 V (not accessible) |
| Protection in the mains power input (IEC 898) | Recommended miniature circuit breaker: 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. | 0.5 % |
| Residual ripple peak-peak, max. | 150 mV |
| Residual ripple peak-peak, typ. | 50 mV |
| Spikes peak-peak, max. (bandwidth: 20 MHz) | 240 mV |

| Spikes peak-peak, typ. (bandwidth: 20 MHz) | 150 mV |
|--|---|
| | 22.8 26.4 V |
| Adjustment range product function output voltage adjustable | Yes |
| Output voltage setting | via potentiometer |
| | Green LED for 24 V OK |
| Status display On/off behavior | |
| | Overshoot of Vout approx. 4 % 1.5 s |
| Startup delay, max. | 170 ms |
| Voltage rise, typ. Rated current value lout rated | 10 A |
| Current range | 0 10 A |
| Note | +45 +60 °C: Derating 2%/K |
| | 240 W |
| supplied active power typical Parallel switching for enhanced performance | Yes |
| Numbers of parallel switchable units for enhanced | 2 |
| performance | 2 |
| Efficiency | |
| Efficiency at Vout rated, lout rated, approx. | 89 % |
| Power loss at Vout rated, lout rated, approx. | 34 W |
| Closed-loop control | |
| Dynamic mains compensation (Vin rated ±15 %), max. | 0.3 % |
| Dynamic load smoothing (lout: 10/90/10 %), Uout ± typ. | 2 % |
| Load step setting time 10 to 90%, typ. | 0.5 ms |
| Load step setting time 10 to 30%, typ. Load step setting time 90 to 10%, typ. | 0.7 ms |
| Protection and monitoring | 0.7 1113 |
| - | - 22 V |
| Output overvoltage protection | < 33 V |
| Current limitation, typ. | 16 A |
| property of the output short-circuit proof | Yes Constant or mark the constant to |
| Short-circuit protection | Constant current characteristic |
| enduring short circuit current RMS value | 40.04 |
| typical Overload/short-circuit indicator | 12.6 A |
| | · |
| Safety | Voc |
| Primary/secondary isolation | Yes |
| galvanic isolation | Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 |
| Protection class | Class I |
| leakage current | 2.5 4 |
| • maximum | 3.5 mA |
| • typical | 0.8 mA |
| Degree of protection (EN 60529) | IP20 |
| Approvals | |
| CE mark | Yes |
| | |
| UL/cUL (CSA) approval | cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259 |
| Explosion protection | - |
| Explosion protection certificate of suitability NEC Class 2 | |
| Explosion protection certificate of suitability NEC Class 2 FM approval | - No - |
| Explosion protection certificate of suitability NEC Class 2 FM approval CB approval | - No - Yes |
| Explosion protection certificate of suitability NEC Class 2 FM approval CB approval certificate of suitability EAC approval | - No - Yes Yes |
| Explosion protection certificate of suitability NEC Class 2 FM approval CB approval certificate of suitability EAC approval Marine approval | - No - Yes |
| Explosion protection certificate of suitability NEC Class 2 FM approval CB approval certificate of suitability EAC approval Marine approval EMC | - No - Yes Yes - |
| Explosion protection certificate of suitability NEC Class 2 FM approval CB approval certificate of suitability EAC approval Marine approval EMC Emitted interference | - No - Yes Yes |
| Explosion protection certificate of suitability NEC Class 2 FM approval CB approval certificate of suitability EAC approval Marine approval EMC Emitted interference Supply harmonics limitation | - No - Yes Yes - EN 55022 Class A - |
| Explosion protection certificate of suitability NEC Class 2 FM approval CB approval certificate of suitability EAC approval Marine approval EMC Emitted interference Supply harmonics limitation Noise immunity | - No - Yes Yes - |
| Explosion protection certificate of suitability NEC Class 2 FM approval CB approval certificate of suitability EAC approval Marine approval EMC Emitted interference Supply harmonics limitation | - No - Yes Yes - EN 55022 Class A - |
| Explosion protection certificate of suitability NEC Class 2 FM approval CB approval certificate of suitability EAC approval Marine approval EMC Emitted interference Supply harmonics limitation Noise immunity | - No - Yes Yes - EN 55022 Class A - |
| Explosion protection certificate of suitability NEC Class 2 FM approval CB approval certificate of suitability EAC approval Marine approval EMC Emitted interference Supply harmonics limitation Noise immunity environmental conditions | - No - Yes Yes - EN 55022 Class A - |
| Explosion protection certificate of suitability NEC Class 2 FM approval CB approval certificate of suitability EAC approval Marine approval EMC Emitted interference Supply harmonics limitation Noise immunity environmental conditions ambient temperature | - No - Yes Yes Yes - EN 55022 Class A - EN 61000-6-2 0 60 °C with natural convection |
| Explosion protection certificate of suitability NEC Class 2 FM approval CB approval certificate of suitability EAC approval Marine approval EMC Emitted interference Supply harmonics limitation Noise immunity environmental conditions ambient temperature • during operation | - No - Yes Yes Yes - EN 55022 Class A - EN 61000-6-2 |
| Explosion protection certificate of suitability NEC Class 2 FM approval CB approval certificate of suitability EAC approval Marine approval EMC Emitted interference Supply harmonics limitation Noise immunity environmental conditions ambient temperature • during operation — Note | - No - Yes Yes Yes - EN 55022 Class A - EN 61000-6-2 |

| Humidity class according to EN 60721 | Climate class 3K3, 5 95% no condensation |
|--|---|
| Mechanics | |
| Connection technology | screw-type terminals |
| Connections | |
| Supply input | L, N, PE: 1 screw terminal each for 0.5 2.5 mm² single-core/finely stranded |
| Output | +, -: 2 screw terminals each for 0.5 2.5 mm² |
| Auxiliary | |
| width of the enclosure | 70 mm |
| height of the enclosure | 125 mm |
| depth of the enclosure | 120 mm |
| required spacing | |
| • top | 50 mm |
| bottom | 50 mm |
| • left | 0 mm |
| • right | 0 mm |
| Weight, approx. | 0.75 kg |
| product feature of the enclosure housing can be lined up | Yes |
| Installation | Snaps onto DIN rail EN 60715 35x7.5/15 |
| MTBF at 40 °C | 2 333 396 h |
| other information | Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified) |

