SIEMENS

Data sheet 6EP1322-2BA00



SITOP PSU100S/1AC/12VDC/7A

SITOP PSU100S 12 V/7 A stabilized power supply input: 120/230 V AC output: 12 V DC/7 A *Ex approval no longer available*

| nput | |
|--|--|
| type of the power supply network | 1-phase AC |
| supply voltage at AC | |
| • initial value | Automatic range selection |
| supply voltage | |
| • 1 at AC rated value | 120 V |
| • 2 at AC rated value | 230 V |
| input voltage | |
| • 1 at AC | 85 132 V |
| • 2 at AC | 170 264 V |
| design of input wide range input | No |
| overvoltage overload capability | 2.3 × Vin rated, 1.3 ms |
| operating condition of the mains buffering | at Vin = 93/187 V |
| buffering time for rated value of the output current in the event of power failure minimum | 20 ms |
| operating condition of the mains buffering | at Vin = 93/187 V |
| line frequency | |
| • 1 rated value | 50 Hz |
| • 2 rated value | 60 Hz |
| line frequency | 47 63 Hz |
| input current | |
| at rated input voltage 120 V | 1.73 A |
| at rated input voltage 230 V | 0.99 A |
| current limitation of inrush current at 25 °C maximum | 45 A |
| fuse protection type | T 3,15 A/250 V (not accessible) |
| • in the feeder | Recommended miniature circuit breaker: from 6 A characteristic C |
| Output | |
| voltage curve at output | Controlled, isolated DC voltage |
| output voltage at DC rated value | 12 V |
| output voltage | |
| at output 1 at DC rated value | 12 V |
| relative overall tolerance of the voltage | 3 % |
| relative control precision of the output voltage | |
| on slow fluctuation of input voltage | 0.1 % |
| on slow fluctuation of ohm loading | 1 % |
| residual ripple | |
| • maximum | 150 mV |
| • typical | 20 mV |
| voltage peak | |
| • maximum | 240 mV |
| | |

| • typical | 100 mV |
|---|---|
| adjustable output voltage | 11.5 15.5 V |
| product function output voltage adjustable | Yes |
| type of output voltage setting | via potentiometer |
| display version for normal operation | Green LED for 12 V OK |
| type of signal at output | Relay contact (NO contact, rating 60 V DC/ 0.3 A) for 12 V OK |
| behavior of the output voltage when switching on | Overshoot of Vout < 3 % |
| response delay maximum | 0.3 s |
| voltage increase time of the output voltage | |
| typical | 10 ms |
| output current | |
| • rated value | 7 A |
| rated range | 0 7 A; +50 +70 °C: Derating 0.75%/K |
| supplied active power typical | 84 W |
| short-term overload current | |
| on short-circuiting during the start-up typical | 25 A |
| at short-circuit during operation typical | 25 A |
| duration of overloading capability for excess current | |
| on short-circuiting during the start-up | 800 ms |
| at short-circuit during operation | 800 ms |
| product feature | |
| bridging of equipment | Yes |
| number of parallel-switched equipment resources for increasing | 2 |
| the power | - |
| Efficiency | |
| efficiency in percent | 84 % |
| power loss [W] | |
| at rated output voltage for rated value of the output | 15 W |
| current typical | |
| Closed-loop control | |
| relative control precision of the output voltage at load step of | 5 % |
| resistive load 10/90/10 % typical | |
| setting time | |
| load step 10 to 90% typical | 1 ms |
| load step 90 to 10% typical | 1 ms |
| Protection and monitoring | |
| design of the overvoltage protection | <20 V |
| response value current limitation | 7 8.8 A |
| property of the output short-circuit proof | Yes |
| design of short-circuit protection | Constant current characteristic |
| enduring short circuit current RMS value | |
| • typical | 8.8 A |
| overcurrent overload capability in normal operation | overload capability 150 % lout rated up to 5 s/min |
| display version for overload and short circuit | - |
| Safety | |
| galvanic isolation between input and output | Yes |
| galvanic isolation | Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 |
| operating resource protection class | Class I |
| leakage current | |
| • maximum | 3.5 mA |
| • typical | 0.4 mA |
| protection class IP | IP20 |
| Approvals | 20 |
| | |
| certificate of suitability | Voc |
| • CE marking | Yes |
| UL approval | Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1) |
| CSA approval | Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus |
| | (CSA C22.2 No. 60950-1, UL 60950-1) |
| • cCSAus, Class 1, Division 2 | No |
| • ATEX | No |
| | |

| • IECEx | No |
|--|---|
| NEC Class 2 | No |
| ULhazloc approval | No |
| FM registration | No |
| type of certification CB-certificate | Yes |
| certificate of suitability | 103 |
| EAC approval | Yes |
| certificate of suitability shipbuilding approval | Yes |
| shipbuilding approval | DNV GL |
| Marine classification association | DINV GL |
| American Bureau of Shipping Europe Ltd. (ABS) | No |
| • | |
| French marine classification society (BV) PNIV CL | No Yea |
| • DNV GL | Yes |
| Lloyds Register of Shipping (LRS) | No |
| Nippon Kaiji Kyokai (NK) | No |
| EMC | |
| standard | |
| for emitted interference | EN 55022 Class B |
| for mains harmonics limitation | EN 61000-3-2 |
| for interference immunity | EN 61000-6-2 |
| environmental conditions | |
| ambient temperature | |
| during operation | -25 +70 °C; with natural convection |
| during transport | -40 +85 °C |
| during storage | -40 +85 °C |
| environmental category according to IEC 60721 | Climate class 3K3, 5 95% no condensation |
| Mechanics | |
| type of electrical connection | screw-type terminals |
| • at input | L, N, PE: 1 screw terminal each for 0.5 2.5 mm² single-core/finely stranded |
| • at output | +, -: 2 screw terminals each for 0.5 2.5 mm ² |
| for auxiliary contacts | Alarm signals: 2 screw terminals for 0.5 2.5 mm ² |
| for signaling contact | 2 screw terminals for 0.5 2.5 mm ² |
| width of the enclosure | 50 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 |
| net weight | 0.5 kg |
| product feature of the enclosure housing can be lined up | Yes |
| fastening method | Snaps onto DIN rail EN 60715 35x7.5/15 |
| MTBF at 40 °C | 1 998 441 h |
| other information | Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified) |



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