SIEMENS

## Data sheet 6EP1332-1SH52


LOGO!POWER 24 V/4 A

LOGO!Power 24 V/4 A Stabilized power supply input: 100-240 V AC (DC 110-300 V) output: 24 V DC/4 A

| | |
|---|---|
| **Input** | |
| type of the power supply network | 1-phase AC or DC |
| supply voltage at AC | |
| ● minimum rated value | 100 V |
| ● maximum rated value | 240 V |
| ● initial value | 85 V |
| ● full-scale value | 264 V |
| input voltage | |
| ● at DC | 110 ... 300 V |
| design of input wide range input | Yes |
| overvoltage overload capability | 2.3 × Vin rated, 1.3 ms |
| operating condition of the mains buffering | at Vin = 187 V |
| buffering time for rated value of the output current in the event of power failure minimum | 40 ms |
| operating condition of the mains buffering | at Vin = 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 | 1.95 A |
| ● at rated input voltage 230 V | 0.97 A |
| current limitation of inrush current at 25 °C maximum | 30 A |
| I2t value maximum | 2.5 $A^2 \cdot s$ |
| fuse protection type | internal |
| ● in the feeder | Recommended miniature circuit breaker: from 10 A characteristic B or from 6 A characteristic C |
| **Output** | |
| voltage curve at output | Controlled, isolated DC voltage |
| output voltage at DC rated value | 24 V |
| output voltage | |
| ● at output 1 at DC rated value | 24 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 | 1.5 % |
| residual ripple | |
| ● maximum | 200 mV |
| ● typical | 30 mV |
| voltage peak | |

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| ● maximum | 300 mV |
| ● typical | 60 mV |
| adjustable output voltage | 22.2 ... 26.4 V |
| product function output voltage adjustable | Yes |
| type of output voltage setting | via potentiometer |
| display version for normal operation | Green LED for output voltage OK |
| behavior of the output voltage when switching on | No overshoot of Vout (soft start) |
| response delay maximum | 0.5 s |
| voltage increase time of the output voltage | |
| ● typical | 15 ms |
| output current | |
| ● rated value | 4 A |
| ● rated range | 0 ... 4 A; +55 ... +70 °C: Derating 2%/K |
| supplied active power typical | 96 W |
| product feature | |
| ● bridging of equipment | Yes |
| number of parallel-switched equipment resources for increasing the power | 2 |
| **Efficiency** | |
| efficiency in percent | 89 % |
| power loss [W] | |
| ● at rated output voltage for rated value of the output current typical | 12 W |
| ● during no-load operation maximum | 2 W |
| **Closed-loop control** | |
| relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical | 0.2 % |
| relative control precision of the output voltage at load step of resistive load 10/90/10 % typical | 1.5 % |
| 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 | Yes, according to EN 60950-1 |
| response value current limitation typical | 5.2 A |
| property of the output short-circuit proof | Yes |
| design of short-circuit protection | Constant current characteristic |
| enduring short circuit current RMS value | |
| ● maximum | 7.9 A |
| 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 II (without protective conductor) |
| protection class IP | IP20 |
| **Approvals** | |
| certificate of suitability | |
| ● CE marking | Yes |
| ● UL approval | Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cURus-Recognized (UL 60950, CSA C22.2 No. 60950), File E151273 |
| ● CSA approval | Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cURus-Recognized (UL 60950, CSA C22.2 No. 60950), File E151273 |
| ● cCSAus, Class 1, Division 2 | No |
| ● ATEX | No |
| certificate of suitability | |
| ● IECEx | No |
| ● NEC Class 2 | No |
| ● ULhazloc approval | No |
| ● FM registration | No |
| type of certification CB-certificate | Yes |
| certificate of suitability | |

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| ● EAC approval | Yes |
| certificate of suitability shipbuilding approval | Yes |
| shipbuilding approval | ABS, BV, DNV, GL, LRS |
| Marine classification association | |
| ● American Bureau of Shipping Europe Ltd. (ABS) | Yes |
| ● French marine classification society (BV) | Yes |
| ● DNV GL | Yes |
| ● Lloyds Register of Shipping (LRS) | Yes |
| ● 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 | -20 ... +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: 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 mm² |
| ● for auxiliary contacts | - |
| width of the enclosure | 90 mm |
| height of the enclosure | 90 mm |
| depth of the enclosure | 52.6 mm |
| required spacing | |
| ● top | 20 mm |
| ● bottom | 20 mm |
| ● left | 0 mm |
| ● right | 0 mm |
| net weight | 0.34 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 | 3 608 805 h |
| other information | Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified) |