SIEMENS

## Data sheet 6EP1332-1SH43

LOGO!POWER 24 V/2,5 A

LOGO!Power 24 V/2.5 A Stabilized power supply input: 100-240 V AC (DC 110-300 V) output: DC 24 V/2,5 A

| | |
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| **General information** | |
| product brand name | LOGO!Power |
| product designation | Power supply LOGO!Power |
| type of current supply | 24 V/2.5 A |
| **input** | |
| type of the power supply network | 1-phase AC or DC |
| phase number | 1 |
| voltage curve at input | AC/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 |
| supply voltage | |
| ● at 50 Hz | 240 V |
| ● at 60 Hz | 100 V |
| line frequency | 50/60 Hz |
| line frequency | 47 ... 63 Hz |
| wide range input | Yes |
| overvoltage overload capability | 2.3 × Vin rated, 1.3 ms |
| 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 |
| input current | |
| ● at rated input voltage 120 V | 1.22 A |
| ● at rated input voltage 230 V | 0.66 A |
| current limitation of inrush current at 25 °C maximum | 46 A |
| I2t value maximum | 3 A²·s |
| fuse protection type | internal |
| fuse protection type 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 |
| product function output voltage controlled | Yes |
| product function output voltage stabilized | Yes |
| output voltage at DC rated value | 24 V |
| output voltage | |
| ● at output 1 at DC rated value | 24 V |
| output voltage | |
| ● at output 1 at DC | 24 V |
| output voltage adjustable | Yes; via potentiometer |
| adjustable output voltage | 22.2 ... 26.4 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 | |


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| ● maximum | 200 mV |
| ● typical | 10 mV |
| voltage peak | |
| ● maximum | 300 mV |
| ● typical | 50 mV |
| 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 | 10 ms |
| output current | |
| ● rated value | 2.5 A |
| ● rated range | 0 ... 2.5 A; +55 ... +70 °C: Derating 2%/K |
| supplied active power typical | 60 W |
| bridging of equipment | Yes |
| number of parallel-switched equipment resources for increasing the power | 2 |
| **efficiency** | |
| efficiency in percent | 88 % |
| power loss [W] | |
| ● at rated output voltage for rated value of the output current typical | 8 W |
| ● during no-load operation maximum | 1.8 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 | 2 % |
| 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 |
| property of the output short-circuit proof | Yes |
| design of short-circuit protection | Constant current characteristic |
| ● typical | 3.3 A |
| enduring short circuit current RMS value | |
| ● maximum | 4.8 A |
| **safety** | |
| electrical separation between input and output | Yes |
| electrical separation | 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 |
| **EMC** | |
| standard | |
| ● for emitted interference | EN 55022 Class B |
| ● for mains harmonics limitation | not applicable |
| ● for interference immunity | EN 61000-6-2 |
| **standards, specifications, 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, NEC class 2 (acc. to UL 1310) |
| ● EAC approval | Yes |
| ● NEC Class 2 | Yes |
| type of certification | |
| ● CB-certificate | Yes |
| MTBF at 40 °C | 3 723 563 h |
| **standards, specifications, approvals hazardous environments** | |


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| certificate of suitability | |
| ● IECEx | No |
| ● ATEX | No |
| ● ULhazloc approval | No |
| ● FM registration | No |
| **standards, specifications, approvals marine classification** | |
| shipbuilding approval | Yes |
| Marine classification association | |
| ● American Bureau of Shipping Europe Ltd. (ABS) | Yes |
| ● French marine classification society (BV) | Yes |
| ● Det Norske Veritas (DNV) | Yes |
| ● Lloyds Register of Shipping (LRS) | Yes |
| **ambient 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 |
| **connection method** | |
| type of electrical connection | screw terminal |
| ● 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 | - |
| **mechanical data** | |
| width × height × depth of the enclosure | 72 × 90 × 52.6 mm |
| installation width × mounting height | 72 mm × 130 mm |
| required spacing | |
| ● top | 20 mm |
| ● bottom | 20 mm |
| ● left | 0 mm |
| ● right | 0 mm |
| fastening method | Snaps onto DIN rail EN 60715 35x7.5/15 |
| ● DIN-rail mounting | Yes |
| ● S7 rail mounting | No |
| ● wall mounting | No |
| housing can be lined up | Yes |
| net weight | 0.25 kg |
| **further information internet links** | |
| internet link | |
| ● to website: Industry Online Support | https://support.industry.siemens.com |
| **additional information** | |
| other information | Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified) |
| **security information** | |
| security information | Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement - and continuously maintain - a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity-industry. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under https://www.siemens.com/cert. (V4.7) |


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## Approvals Certificates

### General Product Approval

CB

EG-Konf.

Manufacturer Declaration

China RoHS

Declaration of Conformity

UL

| General Product Approval | EMV | Maritime application |
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RCM

ABS

BUREAU VERITAS

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