



LOGO!Power/1AC/24VDC/4A

LOGO!Power 24 V / 4 A stabilized power supply input: 100-240 V AC
output: 24 V DC / 4 A *Ex approval no longer available*

Input

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| 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 | 300 V AC for 1 s |
| 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 | 31 A |
| I ₂ t value maximum | 2.5 A ² ·s |
| fuse protection type | internal |
| • in the feeder | Recommended miniature circuit breaker: from 10 A characteristic B or from 6 A characteristic C |

Output

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| 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 | 0.1 % |
| residual ripple | |
| • maximum | 200 mV |
| • typical | 30 mV |
| voltage peak | |
| • maximum | 300 mV |
| • typical | 50 mV |

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| 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 | 100 ms |
| • typical | |
| output current | 4 A |
| • rated value | 0 ... 4 A; +55 ... +70 °C: Derating 2%/K |
| • rated range | |
| supplied active power typical | 96 W |
| product feature | Yes |
| • bridging of equipment | |
| number of parallel-switched equipment resources for increasing the power | 2 |
| Efficiency | |
| efficiency in percent | 89.1 % |
| power loss [W] | |
| • at rated output voltage for rated value of the output current typical | 11.7 W |
| • during no-load operation maximum | 0.3 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 |
| • typical | 5 A |
| property of the output short-circuit proof | Yes |
| design of short-circuit protection | Constant current characteristic |
| enduring short circuit current RMS value | |
| • maximum | 5 A |
| overcurrent overload capability in normal operation | overload capability 150% Iout rated typ. 200 ms |
| display version for overload and short circuit | - |
| measuring point for output current | 50 mV =^ 4 A |
| overcurrent overload capability when switching on | 150% Iout rated typ. 200 ms |
| 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 | |
| • EAC approval | Yes |
| certificate of suitability shipbuilding approval | Yes |

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| 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 | -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: 1 screw terminal each for 0.5 ... 2.5 mm ² single-core/finely stranded |
| • at output | +, -: 1 screw terminal each for 0.5 ... 2.5 mm ² |
| • for auxiliary contacts | - |
| width of the enclosure | 72 mm |
| height of the enclosure | 90 mm |
| depth of the enclosure | 53 mm |
| required spacing | |
| • top | 20 mm |
| • bottom | 20 mm |
| • left | 0 mm |
| • right | 0 mm |
| net weight | 0.29 kg |
| product feature of the enclosure housing can be lined up | Yes |
| fastening method | Snaps onto DIN rail EN 60715 35x7.5/15, direct mounting in different mounting positions |
| MTBF at 40 °C | 2 391 480 h |
| other information | Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified) |

