



LOGO!Power/1AC/24VDC/2.5A

LOGO!POWER 24 V / 2.5 A Stabilized power supply input: 100-240 V AC  
output: 24 V DC/ 2.5 A \*Ex approval no longer available\*

| 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  | 300 V AC for 1 s   |
| operating condition of the mains buffering   | at $V_{in} = 187$ 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 $V_{in} = 187$ 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   | 1.22 A   |
| • at rated input voltage 230 V   | 0.66 A   |
| current limitation of inrush current at 25 °C maximum                                      | 52 A   |
| I <sup>2</sup> t value maximum   | 3 A <sup>2</sup> ·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   | 0.1 %  |
| residual ripple  |  |
| • maximum  | 200 mV   |
| • typical  | 30 mV  |
| voltage peak   |  |

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| <ul style="list-style-type: none"> <li>• maximum</li> </ul>   | 300 mV   |
| <ul style="list-style-type: none"> <li>• typical</li> </ul>   | 50 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   |  |
| <ul style="list-style-type: none"> <li>• typical</li> </ul>   | 100 ms   |
| output current  |  |
| <ul style="list-style-type: none"> <li>• rated value</li> </ul>   | 2.5 A  |
| <ul style="list-style-type: none"> <li>• rated range</li> </ul>   | 0 ... 2.5 A; +55 ... +70 °C: Derating 2%/K   |
| supplied active power typical   | 60 W   |
| product feature   |  |
| <ul style="list-style-type: none"> <li>• bridging of equipment</li> </ul>   | Yes  |
| number of parallel-switched equipment resources for increasing the power  | 2  |
| <b>Efficiency</b>   |  |
| efficiency in percent   | 90 %   |
| power loss [W]  |  |
| <ul style="list-style-type: none"> <li>• at rated output voltage for rated value of the output current typical</li> </ul> | 7 W  |
| <ul style="list-style-type: none"> <li>• during no-load operation maximum</li> </ul>                                      | 0.3 W  |
| <b>Closed-loop control</b>  |  |
| 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  |  |
| <ul style="list-style-type: none"> <li>• load step 10 to 90% typical</li> </ul>   | 1 ms   |
| <ul style="list-style-type: none"> <li>• load step 90 to 10% typical</li> </ul>   | 1 ms   |
| <b>Protection and monitoring</b>  |  |
| design of the overvoltage protection  | Yes, according to EN 60950-1   |
| response value current limitation typical   | 3.2 A  |
| property of the output short-circuit proof  | Yes  |
| design of short-circuit protection  | Constant current characteristic  |
| enduring short circuit current RMS value  |  |
| <ul style="list-style-type: none"> <li>• maximum</li> </ul>   | 3.2 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 = <sup>^</sup> 2.5 A   |
| overcurrent overload capability when switching on   | 150% Iout rated typ. 200 ms  |
| <b>Safety</b>   |  |
| 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   |
| <b>Approvals</b>  |  |
| certificate of suitability  |  |
| <ul style="list-style-type: none"> <li>• CE marking</li> </ul>  | Yes  |
| <ul style="list-style-type: none"> <li>• UL approval</li> </ul>   | 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) |
| <ul style="list-style-type: none"> <li>• CSA approval</li> </ul>  | 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) |
| <ul style="list-style-type: none"> <li>• cCSAus, Class 1, Division 2</li> </ul>   | No   |
| <ul style="list-style-type: none"> <li>• ATEX</li> </ul>  | No   |
| certificate of suitability  |  |
| <ul style="list-style-type: none"> <li>• IECEx</li> </ul>   | No   |

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| <ul style="list-style-type: none"> <li>• NEC Class 2</li> </ul>                                   | Yes   |
| <ul style="list-style-type: none"> <li>• ULhazloc approval</li> </ul>                             | No  |
| <ul style="list-style-type: none"> <li>• FM registration</li> </ul>                               | No  |
| type of certification CB-certificate  | Yes   |
| certificate of suitability  |   |
| <ul style="list-style-type: none"> <li>• EAC approval</li> </ul>                                  | Yes   |
| certificate of suitability shipbuilding approval  | Yes   |
| shipbuilding approval   | ABS, BV, DNV GL, LRS  |
| Marine classification association   |   |
| <ul style="list-style-type: none"> <li>• American Bureau of Shipping Europe Ltd. (ABS)</li> </ul> | Yes   |
| <ul style="list-style-type: none"> <li>• French marine classification society (BV)</li> </ul>     | Yes   |
| <ul style="list-style-type: none"> <li>• DNV GL</li> </ul>  | Yes   |
| <ul style="list-style-type: none"> <li>• Lloyds Register of Shipping (LRS)</li> </ul>             | Yes   |
| <ul style="list-style-type: none"> <li>• Nippon Kaiji Kyokai (NK)</li> </ul>                      | No  |
| <b>EMC</b>  |   |
| standard  |   |
| <ul style="list-style-type: none"> <li>• for emitted interference</li> </ul>                      | EN 55022 Class B  |
| <ul style="list-style-type: none"> <li>• for mains harmonics limitation</li> </ul>                | not applicable  |
| <ul style="list-style-type: none"> <li>• for interference immunity</li> </ul>                     | EN 61000-6-2  |
| <b>environmental conditions</b>   |   |
| ambient temperature   |   |
| <ul style="list-style-type: none"> <li>• during operation</li> </ul>                              | -25 ... +70 °C; with natural convection   |
| <ul style="list-style-type: none"> <li>• during transport</li> </ul>                              | -40 ... +85 °C  |
| <ul style="list-style-type: none"> <li>• during storage</li> </ul>                                | -40 ... +85 °C  |
| environmental category according to IEC 60721   | Climate class 3K3, 5 ... 95% no condensation  |
| <b>Mechanics</b>  |   |
| type of electrical connection   | screw-type terminals  |
| <ul style="list-style-type: none"> <li>• at input</li> </ul>                                      | L, N: 1 screw terminal each for 0.5 ... 2.5 mm <sup>2</sup> single-core/finely stranded           |
| <ul style="list-style-type: none"> <li>• at output</li> </ul>                                     | +, -: 1 screw terminal each for 0.5 ... 2.5 mm <sup>2</sup>                                       |
| <ul style="list-style-type: none"> <li>• for auxiliary contacts</li> </ul>                        | -   |
| width of the enclosure  | 54 mm   |
| height of the enclosure   | 90 mm   |
| depth of the enclosure  | 53 mm   |
| required spacing  |   |
| <ul style="list-style-type: none"> <li>• top</li> </ul>   | 20 mm   |
| <ul style="list-style-type: none"> <li>• bottom</li> </ul>  | 20 mm   |
| <ul style="list-style-type: none"> <li>• left</li> </ul>  | 0 mm  |
| <ul style="list-style-type: none"> <li>• right</li> </ul>   | 0 mm  |
| net weight  | 0.2 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   | 2 864 520 h   |
| other information   | Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified) |

