

LOGO!POWER 15 V/1.9 A
 LOGO!POWER 15 V / 1.9 A Stabilized power supply input: 100-240
 V AC output: DC 15 V / 1.9 A



| Input | |
|---|----------------------------|
| Input | 1-phase AC or DC |
| Rated voltage value V_{in} rated | 100 ... 240 V |
| Voltage range AC | 85 ... 264 V |
| Input voltage | |
| • at DC | 110 ... 300 V |
| Wide-range input | Yes |
| Oversoltage resistance | 300 V AC for 1 s |
| Mains buffering | at $V_{in} = 187$ V |
| Mains buffering at I_{out} rated, min. | 40 ms; at $V_{in} = 187$ V |
| Rated line frequency 1 | 50 Hz |
| Rated line frequency 2 | 60 Hz |
| Rated line range | 47 ... 63 Hz |
| Input current | |
| • at rated input voltage 120 V | 0.63 A |
| • at rated input voltage 230 V | 0.33 A |
| Switch-on current limiting (+25 °C), max. | 25 A |
| I^2t , max. | 0.8 A ² ·s |
| Built-in incoming fuse | internal |

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| Protection in the mains power input (IEC 898) | Recommended miniature circuit breaker: from 6 A characteristic B or from 2 A characteristic C |
| Output | |
| Output | Controlled, isolated DC voltage |
| Rated voltage Vout DC | 15 V |
| Total tolerance, static ± | 3 % |
| Static mains compensation, approx. | 0.1 % |
| Static load balancing, approx. | 0.1 % |
| Residual ripple peak-peak, max. | 200 mV |
| Residual ripple peak-peak, typ. | 30 mV |
| Spikes peak-peak, max. (bandwidth: 20 MHz) | 300 mV |
| Spikes peak-peak, typ. (bandwidth: 20 MHz) | 50 mV |
| Adjustment range | 10.5 ... 16.1 V |
| Product function Output voltage adjustable | Yes |
| Output voltage setting | via potentiometer |
| Status display | Green LED for output voltage OK |
| On/off behavior | No overshoot of Vout (soft start) |
| Startup delay, max. | 0.5 s |
| Voltage rise, typ. | 100 ms |
| Rated current value Iout rated | 1.9 A |
| Current range | 0 ... 1.9 A |
| • Note | +55 ... +70 °C: Derating 2%/K |
| Supplied active power typical | 28.5 W |
| Parallel switching for enhanced performance | Yes |
| Numbers of parallel switchable units for enhanced performance | 2 |
| Efficiency | |
| Efficiency at Vout rated, Iout rated, approx. | 83 % |
| Power loss at Vout rated, Iout rated, approx. | 6 W |
| Power loss [W] during no-load operation maximum | 0.3 W |
| Closed-loop control | |
| Dynamic mains compensation (Vin rated ±15 %), max. | 0.2 % |
| Dynamic load smoothing (Iout: 10/90/10 %), Uout ± typ. | 2 % |
| Load step setting time 10 to 90%, typ. | 1 ms |
| Load step setting time 90 to 10%, typ. | 1 ms |
| Protection and monitoring | |
| Output overvoltage protection | Yes, according to EN 60950-1 |
| Current limitation, typ. | 2.5 A |
| Property of the output Short-circuit proof | Yes |
| Short-circuit protection | Constant current characteristic |

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| Enduring short circuit current RMS value | |
| <ul style="list-style-type: none"> • maximum | 2.5 A |
| Overcurrent overload capability in normal operation | overload capability 150% I _{out} rated typ. 200 ms |
| Overload/short-circuit indicator | - |
| measuring point for output current | 50 mV ≈ 1.9 A |
| Overcurrent overload capability when switching on | 150% I _{out} rated typ. 200 ms |

| Safety | |
|---------------------------------|--|
| Primary/secondary isolation | Yes |
| Galvanic isolation | Safety extra-low output voltage U _{out} acc. to EN 60950-1 and EN 50178 |
| Protection class | Class II (without protective conductor) |
| Degree of protection (EN 60529) | IP20 |

| Approvals | |
|-----------------------|--|
| CE mark | Yes |
| UL/cUL (CSA) approval | 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) |
| Explosion protection | ATEX (EX) II 3G Ex nA IIC T3; cULus Class I Div. 2 (ANSI/ISA-12.12.01, CSA C22.2 No. 213) Group ABCD, T4, File E488866 |
| FM approval | Class I, Div. 2, Group ABCD, T4 |
| CB approval | Yes |
| Marine approval | ABS, BV, DNV GL, LRS |

| EMC | |
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| Emitted interference | EN 55022 Class B |
| Supply harmonics limitation | not applicable |
| Noise immunity | EN 61000-6-2 |

| environmental conditions | |
|--|---|
| Ambient temperature | |
| <ul style="list-style-type: none"> • during operation — Note • during transport • during storage | -25 ... +70 °C with natural convection -40 ... +85 °C -40 ... +85 °C |
| Humidity class according to EN 60721 | Climate class 3K3, 5 ... 95% no condensation |

| Mechanics | |
|---|---|
| Connection technology | screw-type terminals |
| Connections | |
| <ul style="list-style-type: none"> • Supply input • Output • Auxiliary | L, N: 1 screw terminal each for 0.5 ... 2.5 mm ² single-core/finely stranded +, -: 1 screw terminal each for 0.5 ... 2.5 mm ² - |
| Width of the enclosure | 36 mm |
| Height of the enclosure | 90 mm |

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| Depth of the enclosure | 53 mm |
| Required spacing | |
| • top | 20 mm |
| • bottom | 20 mm |
| • left | 0 mm |
| • right | 0 mm |
| Weight, approx. | 0.12 kg |
| Product feature of the enclosure housing for side-by-side mounting | Yes |
| Installation | Snaps onto DIN rail EN 60715 35x7.5/15, direct mounting in different mounting positions |
| MTBF at 40 °C | 2 938 542 h |
| Other information | Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified) |