

LOGO!POWER 12 V/0.9 A
 LOGO!POWER 12 V / 0.9 A stabilized power supply input: 100-240 V
 AC output: 12 V / 0.9 A DC



| 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 |
| 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 | 0.3 A |
| • at rated input voltage 230 V | 0.2 A |
| Switch-on current limiting (+25 °C), max. | 20 A |
| I^2t , max. | 0.8 A ² ·s |
| Built-in incoming fuse | internal |
| Output | |
| Output | Controlled, isolated DC voltage |

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|---|-----------------------------------|
| Rated voltage Vout DC | 12 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 |
| Product function Output voltage adjustable | No |
| 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 | 0.9 A |
| Current range | 0 ... 0.9 A |
| • Note | +55 ... +70 °C: Derating 2%/K |
| Supplied active power typical | 10.8 W |
| Parallel switching for enhanced performance | No |
| Numbers of parallel switchable units for enhanced performance | 2 |

Efficiency

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| Efficiency at Vout rated, Iout rated, approx. | 78 % |
| Power loss at Vout rated, Iout rated, approx. | 3 W |
| Power loss [W] during no-load operation maximum | 0.3 W |

Closed-loop control

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| Dynamic mains compensation (Vin rated ±15 %), max. | 0.2 % |
| Dynamic load smoothing (Iout: 10/90/10 %), Uout ± typ. | 3 % |
| Load step setting time 10 to 90%, typ. | 1 ms |
| Load step setting time 90 to 10%, typ. | 1 ms |

Protection and monitoring

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|--|---------------------------------|
| Output overvoltage protection | Yes, according to EN 60950-1 |
| Current limitation, typ. | 1.3 A |
| Property of the output Short-circuit proof | Yes |
| Short-circuit protection | Constant current characteristic |
| Enduring short circuit current RMS value | |
| • maximum | 1.3 A |
| Overload/short-circuit indicator | - |

Safety

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| Primary/secondary isolation | Yes |
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| Galvanic isolation | Safety extra-low output voltage U _{out} acc. to EN 60950-1 and EN 50178 |
| Protection class | Class II (without protective conductor) |
| 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; cCSAus (CSA C22.2 No. 213-M1987, ANSI/ISA-12.12.01-2007) Class I, Div. 2, Group ABCD, T4 |
| FM approval | Class I, Div. 2, Group ABCD, T4 |
| CB approval | Yes |
| Marine approval | GL and ABS in process |
| Degree of protection (EN 60529) | IP20 |

EMC

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

Operating data

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

Mechanics

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|--|---|
| Connection technology | screw-type terminals |
| Connections | |
| <ul style="list-style-type: none"> • Supply input • Output • Auxiliary | <p>L, N: 1 screw terminal each for 0.5 ... 2.5 mm² single-core/finely stranded</p> <p>+, -: 2 screw terminals each for 0.5 ... 2.5 mm²</p> <p>-</p> |
| Width of the enclosure | 18 mm |
| Height of the enclosure | 90 mm |
| Depth of the enclosure | 53 mm |
| Required spacing | |
| <ul style="list-style-type: none"> • top • bottom • left • right | <p>20 mm</p> <p>20 mm</p> <p>0 mm</p> <p>0 mm</p> |
| Weight, approx. | 0.07 kg |
| Product feature of the enclosure housing for side-by-side mounting | Yes |

| | |
|-------------------|---|
| Installation | Snaps onto DIN rail EN 60715 35x15, various direct mounting positions |
| MTBF at 40 °C | 3 793 080 h |
| Other information | Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified) |