

LOGO!POWER 15 V/4 A  
LOGO!POWER 15 V / 4 A Stabilized power supply input: 100-240 V  
AC output: DC 15 V / 4 A



| Input                                     |                       |
|-------------------------------------------|-----------------------|
| Input                                     | 1-phase AC or DC      |
| Rated voltage value Vin rated             | 100 ... 240 V         |
| Voltage range AC                          | 85 ... 264 V          |
| Input voltage                             |                       |
| • at DC                                   | 110 ... 300 V         |
| Wide-range input                          | Yes                   |
| Overvoltage resistance                    | 300 V AC for 1 s      |
| Mains buffering at Iout rated, min.       | 40 ms; at Vin = 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            | 1.24 A                |
| • at rated input voltage 230 V            | 0.68 A                |
| Switch-on current limiting (+25 °C), max. | 55 A                  |
| I²t, max.                                 | 3 A²·s                |
| Built-in incoming fuse                    | internal              |

|                                               |                                                                                                |
|-----------------------------------------------|------------------------------------------------------------------------------------------------|
| Protection in the mains power input (IEC 898) | Recommended miniature circuit breaker: from 10 A characteristic B or from 6 A characteristic C |
|-----------------------------------------------|------------------------------------------------------------------------------------------------|

  

| Output                                                        |                                   |
|---------------------------------------------------------------|-----------------------------------|
| Output                                                        | Controlled, isolated DC voltage   |
| Rated voltage Vout DC                                         | 15 V                              |
| Total tolerance, static $\pm$                                 | 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                                | 4 A                               |
| Current range                                                 | 0 ... 4 A                         |
| • Note                                                        | +55 ... +70 °C: Derating 2%/K     |
| Supplied active power typical                                 | 60 W                              |
| Parallel switching for enhanced performance                   | Yes                               |
| Numbers of parallel switchable units for enhanced performance | 2                                 |

  

| Efficiency                                      |        |
|-------------------------------------------------|--------|
| Efficiency at Vout rated, Iout rated, approx.   | 88.4 % |
| Power loss at Vout rated, Iout rated, approx.   | 8 W    |
| Power loss [W] during no-load operation maximum | 0.3 W  |

  

| Closed-loop control                                        |       |
|------------------------------------------------------------|-------|
| Dynamic mains compensation (Vin rated $\pm 15$ %), max.    | 0.2 % |
| Dynamic load smoothing (Iout: 10/90/10 %), Uout $\pm$ 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                  |                                 |
|--------------------------------------------|---------------------------------|
| Output overvoltage protection              | Yes, according to EN 60950-1    |
| Current limitation, typ.                   | 5 A                             |
| Property of the output Short-circuit proof | Yes                             |
| Short-circuit protection                   | Constant current characteristic |

|                                                     |                                                             |
|-----------------------------------------------------|-------------------------------------------------------------|
| Enduring short circuit current RMS value            |                                                             |
| • maximum                                           | 5 A                                                         |
| Overcurrent overload capability in normal operation | overload capability 150% I <sub>out</sub> rated typ. 200 ms |
| Overload/short-circuit indicator                    | -                                                           |
| measuring point for output current                  | 45 mV $\approx$ 4 A                                         |

## Safety

|                                 |                                                                                                                                                            |
|---------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Primary/secondary isolation     | Yes                                                                                                                                                        |
| Galvanic isolation              | Safety extra-low output voltage U <sub>out</sub> 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;<br>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                                                                                                                                       |
| 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

|                                      |                                    |
|--------------------------------------|------------------------------------|
| Ambient temperature                  |                                    |
| • during operation                   | -25 ... +70 °C                     |
| — Note                               | with natural convection            |
| • during transport                   | -40 ... +85 °C                     |
| • during storage                     | -40 ... +85 °C                     |
| Humidity class according to EN 60721 | Climate class 3K3, no condensation |

## Mechanics

|                         |                                                                                         |
|-------------------------|-----------------------------------------------------------------------------------------|
| Connection technology   | screw-type terminals                                                                    |
| Connections             |                                                                                         |
| • Supply input          | L, N: 1 screw terminal each for 0.5 ... 2.5 mm <sup>2</sup> single-core/finely stranded |
| • Output                | +, -: 1 screw terminal each for 0.5 ... 2.5 mm <sup>2</sup>                             |
| • Auxiliary             | -                                                                                       |
| 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> <li>• bottom</li> <li>• left</li> <li>• right</li> </ul> | 20 mm<br>20 mm<br>0 mm<br>0 mm                                                                    |
| Weight, approx.                                                                                            | 0.2 kg                                                                                            |
| Product feature of the enclosure housing for side-by-side mounting                                         | Yes                                                                                               |
| Installation                                                                                               | Snap onto DIN rail EN 60715 35x7.5/15, direct mounting in different mounting positions            |
| MTBF at 40 °C                                                                                              | 2 566 680 h                                                                                       |
| Other information                                                                                          | Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified) |