

LOGO!POWER 5 V/6.3 A  
 LOGO!POWER 5 V / 6.3 A stabilized power supply input: 100-240 V  
 AC output: 5 V / 6.3 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                | 0.71 A   |
| • at rated input voltage 230 V                | 0.37 A   |
| Switch-on current limiting (+25 °C), max.     | 50 A   |
| $I^2t$ , max.                                 | 3 A <sup>2</sup> ·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   | 5 V                               |
| Total tolerance, static ±                                     | 3 %                               |
| Static mains compensation, approx.                            | 0.1 %                             |
| Static load balancing, approx.                                | 0.1 %                             |
| Residual ripple peak-peak, max.                               | 100 mV                            |
| Residual ripple peak-peak, typ.                               | 30 mV                             |
| Spikes peak-peak, max. (bandwidth: 20 MHz)                    | 100 mV                            |
| Spikes peak-peak, typ. (bandwidth: 20 MHz)                    | 50 mV                             |
| Adjustment range  | 4.6 ... 5.4 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                                | 6.3 A                             |
| Current range   | 0 ... 6.3 A                       |
| • Note  | +55 ... +70 °C: Derating 2%/K     |
| Supplied active power typical                                 | 31.5 W                            |
| Parallel switching for enhanced performance                   | Yes                               |
| Numbers of parallel switchable units for enhanced performance | 2                                 |

| Efficiency                                      |       |
|---|-------|
| Efficiency at Vout rated, Iout rated, approx.   | 80 %  |
| 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 ±15 %), max.     | 0.2 % |
| Dynamic load smoothing (Iout: 10/90/10 %), Uout ± typ. | 7 %   |
| 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.                   | 8.2 A                           |
| Property of the output Short-circuit proof | Yes                             |
| Short-circuit protection                   | Constant current characteristic |
| Enduring short circuit current RMS value   |                                 |
| • maximum                                  | 8.2 A                           |

|                                  |   |
|----------------------------------|---|
| Overload/short-circuit indicator | - |
|----------------------------------|---|

### 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 |
| 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

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

### Mechanics

|   |  |
|---|--|
| Connection technology   | screw-type terminals   |
| Connections   |  |
| <ul style="list-style-type: none"> <li>• Supply input</li> <li>• Output</li> <li>• Auxiliary</li> </ul> | L, N: 1 screw terminal each for 0.5 ... 2.5 mm <sup>2</sup> single-core/finely stranded<br>+, -: 2 screw terminals each for 0.5 ... 2.5 mm <sup>2</sup><br>- |
| 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> </ul>               | 20 mm<br>20 mm<br>0 mm   |

|  |   |
|--|---|
| • right  | 0 mm  |
| Weight, approx.  | 0.2 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  | 2 654 280 h   |
| Other information  | Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified) |