

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 Vin rated                 | 100 ... 240 V                                                                                  |
| Voltage range AC                              | 85 ... 264 V                                                                                   |
| Input voltage                                 |                                                                                                |
| • at DC                                       | 110 ... 300 V                                                                                  |
| Wide-range input                              | Yes                                                                                            |
| 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                | 0.71 A                                                                                         |
| • at rated input voltage 230 V                | 0.37 A                                                                                         |
| Switch-on current limiting (+25 °C), max.     | 50 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                                         | 5 V                               |
| Total tolerance, static $\pm$                                 | 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 $\pm 15$ %), max.    | 0.2 % |
| Dynamic load smoothing (Iout: 10/90/10 %), Uout $\pm$ 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                                                       | Snap 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) |