



LOGO!Power/1AC/5VDC/3A

LOGO!Power 5 V / 3 A stabilized power supply input: 100-240 V AC output: 5 V DC / 3 A \*Ex approval no longer available\*

### Input

type of the power supply network	1-phase AC or DC
supply voltage at AC	
<ul style="list-style-type: none"> <li>• minimum rated value</li> <li>• maximum rated value</li> <li>• initial value</li> <li>• full-scale value</li> </ul>	<p>100 V</p> <p>240 V</p> <p>85 V</p> <p>264 V</p>
input voltage	
<ul style="list-style-type: none"> <li>• at DC</li> </ul>	110 ... 300 V
design of input wide range input	Yes
overvoltage overload capability	300 V AC for 1 s
operating condition of the mains buffering	at $V_{in} = 187$ V
buffering time for rated value of the output current in the event of power failure minimum	40 ms
operating condition of the mains buffering	at $V_{in} = 187$ V
line frequency	
<ul style="list-style-type: none"> <li>• 1 rated value</li> <li>• 2 rated value</li> </ul>	<p>50 Hz</p> <p>60 Hz</p>
line frequency	47 ... 63 Hz
input current	
<ul style="list-style-type: none"> <li>• at rated input voltage 120 V</li> <li>• at rated input voltage 230 V</li> </ul>	<p>0.36 A</p> <p>0.22 A</p>
current limitation of inrush current at 25 °C maximum	26 A
I <sup>2</sup> t value maximum	0.8 A <sup>2</sup> ·s
fuse protection type	internal
<ul style="list-style-type: none"> <li>• in the feeder</li> </ul>	Recommended miniature circuit breaker: from 6 A characteristic B or from 2 A characteristic C

### Output

voltage curve at output	Controlled, isolated DC voltage
output voltage at DC rated value	5 V
output voltage	
<ul style="list-style-type: none"> <li>• at output 1 at DC rated value</li> </ul>	5 V
relative overall tolerance of the voltage	3 %
relative control precision of the output voltage	
<ul style="list-style-type: none"> <li>• on slow fluctuation of input voltage</li> <li>• on slow fluctuation of ohm loading</li> </ul>	<p>0.1 %</p> <p>0.1 %</p>
residual ripple	
<ul style="list-style-type: none"> <li>• maximum</li> <li>• typical</li> </ul>	<p>100 mV</p> <p>30 mV</p>
voltage peak	
<ul style="list-style-type: none"> <li>• maximum</li> <li>• typical</li> </ul>	<p>100 mV</p> <p>50 mV</p>

adjustable output voltage	4.6 ... 5.4 V
product function output voltage adjustable	Yes
type of output voltage setting	via potentiometer
display version for normal operation	Green LED for output voltage OK
behavior of the output voltage when switching on	No overshoot of Vout (soft start)
response delay maximum	0.5 s
voltage increase time of the output voltage	
• typical	100 ms
output current	
• rated value	3 A
• rated range	0 ... 3 A; +55 ... +70 °C: Derating 2%/K
supplied active power typical	15 W
product feature	
• bridging of equipment	Yes
number of parallel-switched equipment resources for increasing the power	2

### Efficiency

efficiency in percent	76 %
power loss [W]	
• at rated output voltage for rated value of the output current typical	5 W
• during no-load operation maximum	0.3 W

### Closed-loop control

relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical	0.2 %
relative control precision of the output voltage at load step of resistive load 10/90/10 % typical	5 %
setting time	
• load step 10 to 90% typical	1 ms
• load step 90 to 10% typical	1 ms

### Protection and monitoring

design of the overvoltage protection	Yes, according to EN 60950-1
response value current limitation typical	3.8 A
property of the output short-circuit proof	Yes
design of short-circuit protection	Constant current characteristic
enduring short circuit current RMS value	
• maximum	3.8 A
overcurrent overload capability in normal operation	overload capability 150% Iout rated typ. 200 ms
display version for overload and short circuit	-
measuring point for output current	50 mV =^ 3 A
overcurrent overload capability when switching on	150% Iout rated typ. 200 ms

### Safety

galvanic isolation between input and output	Yes
galvanic isolation	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178
operating resource protection class	Class II (without protective conductor)
protection class IP	IP20

### Approvals

certificate of suitability	
• CE marking	Yes
• UL approval	Yes; 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)
• CSA approval	Yes; 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)
• cCSAus, Class 1, Division 2	No
• ATEX	No
certificate of suitability	
• IECEX	No
• NEC Class 2	Yes
• ULhazloc approval	No
• FM registration	No
type of certification CB-certificate	Yes
certificate of suitability	

<ul style="list-style-type: none"> <li>• EAC approval</li> </ul>	Yes
certificate of suitability shipbuilding approval	Yes
shipbuilding approval	ABS, BV, DNV GL, LRS
Marine classification association	
<ul style="list-style-type: none"> <li>• American Bureau of Shipping Europe Ltd. (ABS)</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• French marine classification society (BV)</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• DNV GL</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• Lloyds Register of Shipping (LRS)</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• Nippon Kaiji Kyokai (NK)</li> </ul>	No
<b>EMC</b>	
standard	
<ul style="list-style-type: none"> <li>• for emitted interference</li> </ul>	EN 55022 Class B
<ul style="list-style-type: none"> <li>• for mains harmonics limitation</li> </ul>	not applicable
<ul style="list-style-type: none"> <li>• for interference immunity</li> </ul>	EN 61000-6-2
<b>environmental conditions</b>	
ambient temperature	
<ul style="list-style-type: none"> <li>• during operation</li> </ul>	-25 ... +70 °C; with natural convection
<ul style="list-style-type: none"> <li>• during transport</li> </ul>	-40 ... +85 °C
<ul style="list-style-type: none"> <li>• during storage</li> </ul>	-40 ... +85 °C
environmental category according to IEC 60721	Climate class 3K3, 5 ... 95% no condensation
<b>Mechanics</b>	
type of electrical connection	screw-type terminals
<ul style="list-style-type: none"> <li>• at input</li> </ul>	L, N: 1 screw terminal each for 0.5 ... 2.5 mm <sup>2</sup> single-core/finely stranded
<ul style="list-style-type: none"> <li>• at output</li> </ul>	+, -: 1 screw terminal each for 0.5 ... 2.5 mm <sup>2</sup>
<ul style="list-style-type: none"> <li>• for auxiliary contacts</li> </ul>	-
width of the enclosure	36 mm
height of the enclosure	90 mm
depth of the enclosure	53 mm
required spacing	
<ul style="list-style-type: none"> <li>• top</li> </ul>	20 mm
<ul style="list-style-type: none"> <li>• bottom</li> </ul>	20 mm
<ul style="list-style-type: none"> <li>• left</li> </ul>	0 mm
<ul style="list-style-type: none"> <li>• right</li> </ul>	0 mm
net weight	0.12 kg
product feature of the enclosure housing can be lined up	Yes
fastening method	Snaps onto DIN rail EN 60715 35x7.5/15, direct mounting in different mounting positions
MTBF at 40 °C	2 931 709 h
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)

