



LOGO!Power/1AC/24VDC/0.6A

LOGO!Power 24 V / 0.6 A stabilized power supply input: 100-240 V AC  
output: 24 V DC / 0.6 A \*Ex approval no longer available\*

### Input

type of the power supply network	1-phase AC or DC
supply voltage at AC	
• minimum rated value	100 V
• maximum rated value	240 V
• initial value	85 V
• full-scale value	264 V
input voltage	
• at DC	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 Vin = 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 Vin = 187 V
line frequency	
• 1 rated value	50 Hz
• 2 rated value	60 Hz
line frequency	47 ... 63 Hz
input current	
• at rated input voltage 120 V	0.3 A
• at rated input voltage 230 V	0.2 A
current limitation of inrush current at 25 °C maximum	20 A
I <sub>2</sub> t value maximum	0.8 A <sup>2</sup> ·s
fuse protection type	internal
• in the feeder	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	24 V
output voltage	
• at output 1 at DC rated value	24 V
relative overall tolerance of the voltage	3 %
relative control precision of the output voltage	
• on slow fluctuation of input voltage	0.1 %
• on slow fluctuation of ohm loading	0.1 %
residual ripple	
• maximum	200 mV
• typical	30 mV
voltage peak	
• maximum	300 mV
• typical	50 mV

product function output voltage adjustable display version for normal operation behavior of the output voltage when switching on response delay maximum voltage increase time of the output voltage	No Green LED for output voltage OK No overshoot of $V_{out}$ (soft start) 0.5 s
output current	100 ms
• typical	
• rated value	0.6 A
• rated range	0 ... 0.6 A; +55 ... +70 °C: Derating 2%/K
supplied active power typical product feature	14.4 W
• bridging of equipment	No
<b>Efficiency</b>	
efficiency in percent	81 %
power loss [W]	
• at rated output voltage for rated value of the output current typical	3.4 W
• during no-load operation maximum	0.3 W
<b>Closed-loop control</b>	
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	2 %
setting time	
• load step 10 to 90% typical	1 ms
• load step 90 to 10% typical	1 ms
<b>Protection and monitoring</b>	
design of the overvoltage protection	Yes, according to EN 60950-1
• typical	0.8 A
property of the output short-circuit proof	Yes
design of short-circuit protection	Constant current characteristic
enduring short circuit current RMS value	
• maximum	0.8 A
overcurrent overload capability in normal operation	overload capability 150% $I_{out}$ rated typ. 200 ms
display version for overload and short circuit	-
overcurrent overload capability when switching on	150% $I_{out}$ rated typ. 200 ms
<b>Safety</b>	
galvanic isolation between input and output	Yes
galvanic isolation	Safety extra-low output voltage $U_{out}$ acc. to EN 60950-1 and EN 50178
operating resource protection class	Class II (without protective conductor)
protection class IP	IP20
<b>Approvals</b>	
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	
• EAC approval	Yes
certificate of suitability shipbuilding approval	Yes
shipbuilding approval	ABS, BV, DNV GL, LRS
Marine classification association	
• American Bureau of Shipping Europe Ltd. (ABS)	Yes

• French marine classification society (BV)	Yes
• DNV GL	Yes
• Lloyds Register of Shipping (LRS)	Yes
• Nippon Kaiji Kyokai (NK)	No

## EMC

standard	
• for emitted interference	EN 55022 Class B
• for mains harmonics limitation	not applicable
• for interference immunity	EN 61000-6-2

## environmental conditions

ambient temperature	-25 ... +70 °C; with natural convection
• during operation	-40 ... +85 °C
• during transport	-40 ... +85 °C
• during storage	Climate class 3K3, 5 ... 95% no condensation
environmental category according to IEC 60721	

## Mechanics

type of electrical connection	screw-type terminals
• at input	L, N: 1 screw terminal each for 0.5 ... 2.5 mm <sup>2</sup> single-core/finely stranded
• at output	+, -: 1 screw terminal each for 0.5 ... 2.5 mm <sup>2</sup>
• for auxiliary contacts	-
width of the enclosure	18 mm
height of the enclosure	90 mm
depth of the enclosure	53 mm
required spacing	
• top	20 mm
• bottom	20 mm
• left	0 mm
• right	0 mm
net weight	0.07 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	4 415 040 h
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)

