



LOGO!Power/1AC/24VDC/2.5A

LOGO!POWER 24 V / 2.5 A  
Stabilized power supply input:  
100-240 V AC output: DC 24 V /  
2.5 A

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
Overvoltage resistance	300 V AC for 1 s
Mains buffering	at $V_{in}$ = 187 V
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	1.22 A
• at rated input voltage 230 V	0.66 A
Switch-on current limiting (+25 °C), max.	52 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 $V_{out}$ DC	24 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	22.2 ... 26.4 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	2.5 A
Current range	0 ... 2.5 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
<b>Efficiency</b>	
Efficiency at Vout rated, Iout rated, approx.	90 %
Power loss at Vout rated, Iout rated, approx.	7 W
power loss [W] during no-load operation maximum	0.3 W
<b>Closed-loop control</b>	
Dynamic mains compensation (Vin rated ±15 %), max.	0.2 %
Dynamic load smoothing (Iout: 10/90/10 %), Uout ± typ.	2 %
Load step setting time 10 to 90%, typ.	1 ms
Load step setting time 90 to 10%, typ.	1 ms
<b>Protection and monitoring</b>	
Output overvoltage protection	Yes, according to EN 60950-1
Current limitation, typ.	3.2 A
property of the output short-circuit proof	Yes
Short-circuit protection	Constant current characteristic
enduring short circuit current RMS value	
• maximum	3.2 A
overcurrent overload capability in normal operation	overload capability 150% Iout rated typ. 200 ms
Overload/short-circuit indicator	-
measuring point for output current	50 mV = 2.5 A
overcurrent overload capability when switching on	150% Iout rated typ. 200 ms
<b>Safety</b>	
Primary/secondary isolation	Yes
galvanic isolation	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178
Protection class	Class II (without protective conductor)
Degree of protection (EN 60529)	IP20
<b>Approvals</b>	
CE mark	Yes
UL/cUL (CSA) approval	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)
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
certificate of suitability NEC Class 2	Yes
FM approval	Class I, Div. 2, Group ABCD, T4
CB approval	Yes
Marine approval	ABS, BV, DNV GL, LRS
<b>EMC</b>	
Emitted interference	EN 55022 Class B
Supply harmonics limitation	not applicable
Noise immunity	EN 61000-6-2
<b>environmental conditions</b>	
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, 5 ... 95% no condensation
<b>Mechanics</b>	

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	
• top	20 mm
• bottom	20 mm
• left	0 mm
• right	0 mm
Weight, approx.	0.2 kg
product feature of the enclosure housing can be lined up	Yes
Installation	Snaps onto DIN rail EN 60715 35x7.5/15, direct mounting in different mounting positions
MTBF at 40 °C	2 864 520 h
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)

