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 Vin 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 Vin = 187 V
Mains buffering at lout 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 	1.22 A
 at rated input voltage 230 V 	0.66 A
Switch-on current limiting (+25 °C), max.	52 A
l²t, max.	3 A ² ·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

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Output		
Output	Controlled, isolated DC voltage	
Rated voltage Vout DC	24 V	
Total tolerance, static ±	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 lout 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	2	
performance		
Efficiency		
Efficiency at Vout rated, lout rated, approx.	90 %	
Power loss at Vout rated, lout rated, approx.	7 W	
power loss [W] during no-load operation maximum	0.3 W	
Closed-loop control		
Dynamic mains compensation (Vin rated ±15 %),	0.2 %	
max. Dynamic load smoothing (lout: 10/90/10 %), Uout ±	2 %	
typ.	2 /0	
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.	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% lout 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% lout rated typ. 200 ms
afab.	
Safety Primary/secondary isolation	Yes
galvanic isolation	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN
garranic isolation	50178
Protection class	Class II (without protective conductor)
Degree of protection (EN 60529)	IP20
Approvals	
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
EMC	
Emitted interference	EN 55022 Class B
Supply harmonics limitation	not applicable
Noise immunity	EN 61000-6-2
environmental conditions	
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
Mechanics	
Mechanics Connection technology	screw-type terminals
	screw-type terminals
Connection technology	L, N: 1 screw terminal each for 0.5 2.5 mm2 single-core/finely stranded
Connection technology Connections	L, N: 1 screw terminal each for 0.5 2.5 mm2 single-core/finely
Connection technology Connections • Supply input	L, N: 1 screw terminal each for 0.5 2.5 mm2 single-core/finely stranded

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 for side-by- side mounting	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)