6EP3331-6SB00-0AY0

Data sheet



LOGO!Power/1AC/24VDC/1.3A

LOGO!POWER 24 V / 1.3 A Stabilized power supply input: 100-240 V AC output: DC 24 V / 1.3 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 	0.7 A
 at rated input voltage 230 V 	0.35 A
Switch-on current limiting (+25 °C), max.	25 A
I²t, max.	0.8 A ² ·s
Built-in incoming fuse	internal
Protection in the mains power input (IEC 898)	Recommended miniature circuit breaker: from 6 A characteristic B or from 2 A characteristic C
Output	
Output	Controlled, isolated DC voltage
Rated voltage Vout DC	24 V
output voltage at output 1 at DC rated value	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	1.3 A
	0 1.3 A
Current range • Note	
	+55 +70 °C: Derating 2%/K 31.2 W
supplied active power typical	Yes
Parallel switching for enhanced performance Numbers of parallel switchable units for enhanced	2
performance	2
Efficiency	
Efficiency at Vout rated, lout rated, approx.	86 %
Power loss at Vout rated, lout rated, approx.	5 W
power loss [W] during no-load operation maximum	0.3 W
Closed-loop control	
Dynamic mains compensation (Vin rated ±15 %), max.	0.2 %
Dynamic load smoothing (lout: 10/90/10 %), Uout ± typ.	1 %
Load step setting time 10 to 90%, typ.	1 ms
Load step setting time 90 to 10%, typ.	1 ms
Protection and monitoring	Tillo
Output overvoltage protection	Yes, according to EN 60950-1
Current limitation, typ.	1.7 A
property of the output short-circuit proof	Yes
Short-circuit protection	Constant current characteristic
enduring short circuit current RMS value	Constant current characteristic
maximum	1.7 A
overcurrent overload capability in normal operation	overload capability 150% lout rated typ. 200 ms
Overload/short-circuit indicator	- Overload capability 130 % fout fated typ. 200 fffs
measuring point for output current	50 mV =^ 1.3 A
overcurrent overload capability when switching on	150% lout rated typ. 200 ms
Safety	100 % lout fateu typ. 200 filis
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
Approvals	
Approvals	Von
CE mark	Yes CITUE Listed (III 508 CSA C22 2 No. 107.1) File E107250: CIPUS
	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)
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CE mark UL/cUL (CSA) approval Explosion protection certificate of suitability NEC Class 2 FM 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) 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 Yes
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CE mark UL/cUL (CSA) approval Explosion protection certificate of suitability NEC Class 2 FM approval CB approval certificate of suitability EAC approval Marine approval EMC Emitted interference	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) 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 Yes Class I, Div. 2, Group ABCD, T4 Yes Yes ABS, BV, DNV GL, LRS
CE mark UL/cUL (CSA) approval Explosion protection certificate of suitability NEC Class 2 FM approval CB approval certificate of suitability EAC approval Marine approval EMC Emitted interference Supply harmonics limitation	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) 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 Yes Class I, Div. 2, Group ABCD, T4 Yes Yes ABS, BV, DNV GL, LRS EN 55022 Class B not applicable
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CE mark UL/cUL (CSA) approval Explosion protection certificate of suitability NEC Class 2 FM approval CB approval certificate of suitability EAC approval Marine approval EMC Emitted interference Supply harmonics limitation Noise immunity environmental conditions ambient temperature	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) 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 Yes Class I, Div. 2, Group ABCD, T4 Yes Yes ABS, BV, DNV GL, LRS EN 55022 Class B not applicable EN 61000-6-2
CE mark UL/cUL (CSA) approval Explosion protection certificate of suitability NEC Class 2 FM approval CB approval certificate of suitability EAC approval Marine approval EMC Emitted interference Supply harmonics limitation Noise immunity environmental conditions ambient temperature • during operation	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) 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 Yes Class I, Div. 2, Group ABCD, T4 Yes Yes ABS, BV, DNV GL, LRS EN 55022 Class B not applicable EN 61000-6-2
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CE mark UL/cUL (CSA) approval Explosion protection certificate of suitability NEC Class 2 FM approval CB approval certificate of suitability EAC approval Marine approval EMC Emitted interference Supply harmonics limitation Noise immunity environmental conditions ambient temperature • during operation — Note • during transport • during storage	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) 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 Yes Class I, Div. 2, Group ABCD, T4 Yes Yes ABS, BV, DNV GL, LRS EN 55022 Class B not applicable EN 61000-6-2 -25 +70 °C with natural convection -40 +85 °C -40 +85 °C
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2 "	
Connections	
Supply input	L, N: 1 screw terminal each for 0.5 2.5 mm2 single-core/finely stranded
Output	+, -: 1 screw terminal each for 0.5 2.5 mm ²
Auxiliary	-
width of the enclosure	36 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.	0.12 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	3 094 996 h
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)

