

AC/DC Power Supply

TXLN 200 Series, 200 Watt

Not recommended for new designs

- Compact metal case with screw terminal block
- Universal input 85-264 VAC
- Convection cooled (no-fan)
- High efficiency up to 89%
- Active PFC >0.95
- Compliance to EN 61000-3-2
- Short circuit, overvoltage and overload protection
- IEC/EN/UL 62368-1 safety approvals
- 3-year product warranty



The TXLN series is a family of encased power supplies designed for a wide range of cost critical applications. With a low profile metal case and screw terminal block connection, they are easy to install in any equipment. These power supplies have universal input and comply with European EMC standards and the Low Voltage Directive (LVD).

Models				
Order Code	Output Power max.	Output Voltage nom. (adjustable)	Output Current max.	Efficiency typ.
TXLN 200-105 *	200 W	5 VDC (4.5 - 5.5 VDC)	40'000 mA	83 %
TXLN 200-112 *		12 VDC (10.8 - 13.2 VDC)	16'700 mA	86 %
TXLN 200-124 *		24 VDC (21.6 - 26.4 VDC)	8'400 mA	88 %
TXLN 200-148 *		48 VDC (43.2 - 52.8 VDC)	4'200 mA	89 %

Options	
on demand (backorder with MOQ non stocking item)	- Optional model with 36 VDC and 5'600 mA

Note * Not recommended for new designs

Input Specifications

Input Voltage	- AC Range	Operational Range: 85 - 264 VAC (Full Range) Rated Range: 100 - 240 VAC (Full Range)
	- DC Range	Operational Range: 120 - 375 VDC (Designed for, no certification) Polarity: irrelevant
Input Frequency		Operational Range: 47 - 63 Hz Certified: 50/60 Hz
Input Current	- Full load & Vin = 115 VAC	2'600 mA max.
Input Inrush Current	- At 230 VAC	50 A max.
	- At 115 VAC	25 A max.
Power Factor	- At 230 VAC	0.95 min. (Active Power Factor Correction)
	- At 115 VAC	0.95 min. (Active Power Factor Correction)
Input Protection		T 6.3 A / 250 VAC (Internal Fuse)
Recommended Input Fuse		6'300 mA (slow blow) (The need of an external fuse has to be assessed in the final application.)

Output Specifications

Output Voltage Adjustment		±10% (By trim potentiometer) Output power must not exceed rated power!
Voltage Set Accuracy		±2% max. (5 Vout model) ±1% max. (other models)
Regulation	- Input Variation (Vmin - Vmax)	1% max. (5 Vout model) 0.5 % max. (other models)
	- Load Variation (0 - 100%)	2% max. (5 Vout model) 2% max. (other models)
Ripple and Noise (20 MHz Bandwidth)	5 VDC model:	150 mVp-p max. (w/ 0.1 µF 47 µF)
	12 VDC model:	150 mVp-p max. (w/ 0.1 µF 47 µF)
	24 VDC model:	150 mVp-p max. (w/ 0.1 µF 47 µF)
	36 VDC model:	220 mVp-p max. (w/ 0.1 µF 47 µF)
	48 VDC model:	240 mVp-p max. (w/ 0.1 µF 47 µF)
Capacitive Load	5 VDC model:	120'000 µF max.
	12 VDC model:	120'000 µF max.
	24 VDC model:	8'000 µF max.
	36 VDC model:	38'000 µF max.
	48 VDC model:	30'100 µF max.
Minimum Load		Not required
Temperature Coefficient		±0.03 %/K max.
Hold-up Time	- At 230 VAC	8 ms min.
	- At 115 VAC	8 ms min.
Start-up Time	- At 230 VAC	1'500 ms max.
	- At 115 VAC	3'000 ms max.
Short Circuit Protection		Continuous, Automatic recovery
Output Current Limitation		105 - 150% of Iout max.
Overvoltage Protection		115 - 140% of Vout nom.

Safety Specifications

Standards	- IT / Multimedia Equipment	EN 62368-1 IEC 62368-1 UL 62368-1
	- Certification Documents	www.tracopower.com/txln200-safety-cert/
Protection Class		Class I (Prepared): Connection to PE See application note: www.tracopower.com/info/protection-class.pdf
Energy Source	- Output, acc. to 62368-1	ES1
Power Source	- Output, acc. to 62368-1	PS3

All specifications valid at 230 VAC, resistive full load and +25°C after warm-up time, unless otherwise stated.

Pollution Degree	PD 2
Over Voltage Category	OVC II

EMC Specifications

EMI (Emissions)	- Conducted Emissions	EN 55032 class A (internal filter) EN 55032 class B (internal filter)
	- Radiated Emissions	EN 55032 class A (internal filter) EN 55032 class B (internal filter)
	- Harmonic Current Emissions	EN 61000-3-2, class D
	- Voltage Fluctuations & Flicker	EN 61000-3-3
EMS (Immunity)		EN 55024 (IT Equipment) EN 55035 (Multimedia)
	- Electrostatic Discharge	Air: EN 61000-4-2, ± 8 kV, perf. criteria A Contact: EN 61000-4-2, ± 4 kV, perf. criteria A
	- RF Electromagnetic Field	EN 61000-4-3, 3 V/m, perf. criteria A
	- EFT (Burst) / Surge	EN 61000-4-4, ± 1 kV, perf. criteria A
		L to L: EN 61000-4-5, ± 1 kV, perf. criteria B
		L to PE: EN 61000-4-5, ± 2 kV, perf. criteria B
	- Conducted RF Disturbances	EN 61000-4-6, 3 Vrms, perf. criteria A
	- PF Magnetic Field	Continuous: EN 61000-4-8, 3 A/m, perf. criteria A
	- Voltage Dips & Interruptions	230 VAC / 50 Hz: EN 61000-4-11 30%, 25 periods, perf. criteria A >95%, 0.5 periods, perf. criteria A >95%, 250 periods, perf. criteria B

General Specifications

Relative Humidity		90% max. (non condensing)
Temperature Ranges	- Operating Temperature - Storage Temperature	-30°C to +70°C -40°C to +85°C
Power Derating	- High Temperature - Low Input Voltage	2.5 %/K above 50°C 0.66 %/V below 100 VAC
	See application note:	www.tracopower.com/txln200-cc/
Over Temperature Protection Switch Off	- Protection Mode	Latch off
Cooling System		Natural convection (20 LFM)
Altitude During Operation		5'000 m max.
Regulator Topology		Flyback Converter
Switching Frequency		90 - 110 kHz (PWM)
Insulation System		Reinforced Insulation
Isolation Test Voltage	- Input to Output, 60 s - Input to Case or PE, 60 s - Output to Case or PE, 60 s	3'000 VAC 1'800 VAC 500 VAC
Isolation Resistance	- Input to Output, 500 VDC	100 MΩ min.
Isolation Capacitance	- Input to Output, 100 kHz, 1 V	20'000 pF max.
Leakage Current (at 264 VAC / 60Hz)	- Earth Leakage Current	1500 μA max.
Distance Through Isolation		6 mm
Reliability	- Calculated MTBF	177'300 h (MIL-HDBK-217F, ground benign)
Housing Material		Aluminum
Housing Type		Metal Case
Mounting Type		Chassis Mount
Connection Type		Screw Terminal
Weight		770 g
Status Indicator		Indicated by green LED

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Environmental Compliance - REACH Declaration

www.tracopower.com/info/reach-declaration.pdf

- RoHS Declaration

REACH SVHC list compliant

REACH Annex XVII compliant

www.tracopower.com/info/rohs-declaration.pdf

Exemptions: 7(a), 7(c)-I

(RoHS exemptions refer to the component concentration only, not to the overall concentration in the product (O5A rule).)

- SCIP Reference Number

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Additional Information

Supporting Documents

www.tracopower.com/overview/txn200

Frequently Asked Questions

www.tracopower.com/glossary-faq

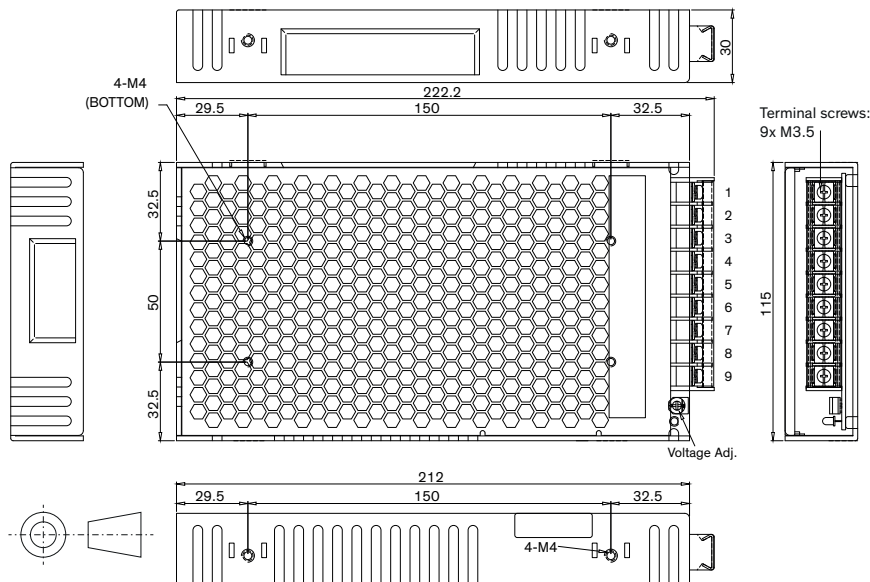
Glossary

www.tracopower.com/info/glossary.pdf

Service Portal

www.tracoserviceportal.com

Outline Dimensions



Screw Terminal

Pin	Function
1	AC (L)
2	AC (N)
3	PE
4-6	-Vout
7-9	+Vout

Max. terminal screw locked torque: 0.7 Nm

Dimensions in mm

Tolerances:

0-8: ± 0.2

8-25: ± 0.3

25-80: ± 0.5

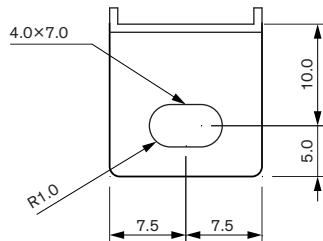
80-250: ± 0.8

Mounting screws

Max. screw penetration depth: 4.0

Max. screw locked torque: 0.8 Nm

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Mounting Bracket (included)


Dimensions in mm

Included in shipment:
 - 4x Mounting Bracket
 - 4x M4 mounting screw

