

- Compact metal case with screw terminal block
- Universal input 85-264 VAC
- High efficiency up to 91%
- 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 500-112	500 W	12 VDC (10.8 - 13.2 VDC)	41'700 mA	88 %
TXLN 500-124		24 VDC (21.6 - 26.4 VDC)	21'000 mA	89 %
TXLN 500-148		48 VDC (43.2 - 52.8 VDC)	10'500 mA	91 %

Options

on demand (backorder with MOQ non stocking item)	- Optional model with 5 VDC / 90'000 mA - Optional model with 36 VDC / 14'000 mA
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Input Specifications

Input Voltage	- AC Range	85 - 264 VAC (Full Range)
	- DC Range	120 - 375 VDC (Designed for, no certification)
Input Frequency		47 - 63 Hz
Input Current	- Full Load & Vin = 115 VAC	6'600 mA max.
Input Inrush Current	- At 230 VAC	40 A max.
	- At 115 VAC	20 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 10 A / 250 VAC (Internal Fuse)
Recommended Input Fuse		10'000 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) 1% 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:	200 mVp-p max. (w/ 0.1 µF // 47 µF)
	48 VDC model:	200 mVp-p max. (w/ 0.1 µF // 47 µF)
Minimum Load		Not required
Temperature Coefficient		±0.03 %/K max.
Hold-up Time	- At 230 VAC	18 ms min.
	- At 115 VAC	18 ms min.
Start-up Time	- At 230 VAC	3'000 ms max.
	- At 115 VAC	3'000 ms max.
Short Circuit Protection		Continuous, Automatic recovery
Output Current Limitation		105 - 130% of Iout max.
Overvoltage Protection		115 - 140% of Vout nom.

Safety Specifications

Safety Standards	- IT / Multimedia Equipment	EN 62368-1 IEC 62368-1 UL 62368-1
	- Certification Documents	www.tracopower.com/overview/txln500
Protection Class		Class I (Prepared): Connection to PE
Pollution Degree		PD 2
Over Voltage Category		OVC II

EMC Specifications

EMI Emissions	- Conducted Emissions	EN 55032 class B (internal filter)
	- Radiated Emissions	EN 55032 class B (internal filter)
	- Harmonic Current Emissions	EN 61000-3-2, class D
	- Voltage Fluctuations & Flicker	EN 61000-3-3

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

EMS Immunity	<ul style="list-style-type: none"> - Electrostatic Discharge - RF Electromagnetic Field - EFT (Burst) / Surge - Conducted RF Disturbances - PF Magnetic Field - Voltage Dips & Interruptions 	EN 55024 (IT Equipment) Air: EN 61000-4-2, ±8 kV, perf. criteria A Contact: EN 61000-4-2, ±4 kV, perf. criteria A EN 61000-4-3, 3 V/m, perf. criteria A 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 EN 61000-4-6, 3 Vrms, perf. criteria A Continuous: EN 61000-4-8, 3 A/m, perf. criteria A 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
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General Specifications		
Relative Humidity		90% max. (non condensing)
Temperature Ranges	<ul style="list-style-type: none"> - Operating Temperature - Storage Temperature 	-30°C to +70°C -40°C to +85°C
Power Derating	<ul style="list-style-type: none"> - High Temperature - Low Input Voltage 	2.5 %/K above 50°C 0.7 %/V below 100 VAC
Over Temperature Protection Switch Off	- Protection Mode	Latch off
Cooling System		Forced air cooling (with internal fan)
Fan Power Source	<ul style="list-style-type: none"> - Characteristic - Output Voltage - Output Current 	Variable fan speed (temperature regulated) 12 VDC 92 mA max.
Remote Control	- Voltage Controlled Remote	On: 0 to 0.8 VDC Off: 4 to 10 VDC Refers to '+Remote' and '-Remote' Pin
Altitude During Operation		5'000 m max. (The max ambient temperature decreases by 5 K / 1000 m when operated above 2000 m)
Switching Frequency		60 - 80 kHz (PWM)
Insulation System		Reinforced Insulation
Isolation Test Voltage	<ul style="list-style-type: none"> - 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.
Leakage Current (at 264 VAC / 60Hz)	- Earth Leakage Current	1500 μA max.
Reliability	- Calculated MTBF	138'700 h (MIL-HDBK-217F, ground benign)
Housing Material		Aluminium
Connection Type		Screw Terminal
Weight		1110 g
Status Indicator		Indicated by green LED
Sense Function		(to be done)
Environmental Compliance	<ul style="list-style-type: none"> - REACH Declaration - RoHS Declaration 	www.tracopower.com/info/reach-declaration.pdf REACH SVHC list compliant REACH Annex XVII compliant www.tracopower.com/info/rohs-declaration.pdf Exemptions: 6a, 6b, 6c, 7a, 7c-I, 7c-II

Supporting Documents	
Overview Link (for additional Documents)	www.tracopower.com/overview/txln500

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