

- Compact metal case with screw terminal block
- Universal input 88-264 VAC
- Convection cooled (no-fan)
- High efficiency up to 82%
- 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	Output 1		Output 2		Output 3		Efficiency typ.
		Vnom	I _{max}	Vnom	I _{max}	Vnom	I _{max}	
TXLN 080-212	80 W	+5 VDC	9'000 mA	+12 VDC	4'000 mA			79 %
TXLN 080-215		+5 VDC	9'000 mA	+24 VDC	2'000 mA			80 %
TXLN 080-312M2		+5 VDC	8'000 mA	+12 VDC	4'000 mA	-12 VDC	1'000 mA	79 %
TXLN 080-313M3		+5 VDC	8'000 mA	+15 VDC	3'500 mA	-15 VDC	1'000 mA	80 %
TXLN 080-3125		+5 VDC	8'000 mA	+12 VDC	3'500 mA	+24 VDC	1'500 mA	82 %

Note - Total output power must not exceed rated power

Input Specifications

Input Voltage	- AC Range	Operational Range: 88 - 264 VAC (Full Range) Rated Range: 100 - 240 VAC (Full Range)
	- DC Range	Operational Range: 125 - 375 VDC (Designed for, no certification) Polarity: irrelevant
Input Frequency		Operational Range: 47 - 63 Hz Certified: 50/60 Hz
Input Current	- Full Load & $V_{in} = 115 \text{ VAC}$	2'500 mA max.
Input Inrush Current	- At 230 VAC	70 A max.
	- At 115 VAC	35 A max.
Input Protection		T 4 A / 250 VAC (Internal Fuse)
Recommended Input Fuse		4'000 mA (slow blow) (The need of an external fuse has to be assessed in the final application.)

Output Specifications

Voltage Set Accuracy			±3% max. (Output 1) ±5% max. (Output 2, dual output models) ±6% max. (Output 2, triple output models) ±5% max. (Output 3)	
Regulation	- Input Variation (Vmin - Vmax)	dual output models:	1.5% max. (Output 1) 2.5% max. (Output 2)	
		triple output models:	1.5% max. (Output 1) 3.0% max. (Output 2) 2.5% max. (Output 3)	
	- Load Variation (0 - 100%)	dual output models:	3% max. (Output 1) 5% max. (Output 2)	
		triple output models:	3% max. (Output 1) 6% max. (Output 2) 5% max. (Output 3)	
Ripple and Noise (20 MHz Bandwidth)	- dual output	5 / 12 VDC model:	80 / 120 mVp-p max. (w/ 0.1 47 µF)	
		5 / 24 VDC model:	80 / 200 mVp-p max. (w/ 0.1 47 µF)	
	- triple output	5 / 12 / -12 VDC model:	80 / 120 / 150 mVp-p max. (w/ 0.1 47 µF)	
		5 / 15 / -15 VDC model:	80 / 150 / 200 mVp-p max. (w/ 0.1 47 µF)	
		5 / 12 / 24 VDC model:	80 / 120 / 240 mVp-p max. (w/ 0.1 47 µF)	
Minimum Load	- dual output	5 / 12 VDC model:	5.6 % of lout max.	
		5 / 24 VDC model:	5.6 % of lout max.	
	- triple output	5 / 12 / -12 VDC model:	6.3 % of lout max.	
		5 / 15 / -15 VDC model:	6.3 % of lout max.	
		5 / 12 / 24 VDC model:	6.3 % of lout max.	
	(minimum load is required only on Output 1)			
Temperature Coefficient			±0.03 %/K max.	
Hold-up Time	- At 230 VAC	50 ms min.		
	- At 115 VAC	10 ms min.		
Start-up Time	- At 230 VAC	1'000 ms max.		
	- At 115 VAC	1'000 ms max.		
Short Circuit Protection			Continuous, Automatic recovery	
Output Current Limitation			105 - 150% of lout max.	
Overvoltage Protection			115 - 140% of Vout nom. (only Output 1)	

Safety Specifications

Safety Standards	- IT / Multimedia Equipment	EN 62368-1 IEC 62368-1 UL 62368-1
	- Certification Documents	www.tracopower.com/overview/txln080

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

Protection Class	Class I (Prepared): Connection to PE
Pollution Degree	PD 2
Over Voltage Category	OVC II

EMC Specifications

EMI Emissions	- Conducted Emissions - Radiated Emissions - Harmonic Current Emissions - Voltage Fluctuations & Flicker	EN 55032 class B (internal filter) EN 55032 class B (internal filter) EN 61000-3-2, class A EN 61000-3-3
EMS Immunity	- Electrostatic Discharge - RF Electromagnetic Field - EFT (Burst) / Surge - Conducted RF Disturbances - PF Magnetic Field - Voltage Dips & Interruptions	EN 55024 (IT Equipment) EN 55035 (Multimedia) 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 A L to PE: EN 61000-4-5, ± 2 kV, perf. criteria A 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 C

General Specifications

Relative Humidity		90% max. (non condensing)
Temperature Ranges	- Operating Temperature - Storage Temperature	-20°C to +70°C -40°C to +85°C
Power Derating	- High Temperature - Low Input Voltage	2.5 %/K above 50°C 0.83 %/V below 100 VAC
	See application note:	www.tracopower.com/overview/txln080
Cooling System		Natural convection (20 LFM)
Altitude During Operation		3'000 m max.
Switching Frequency		61 - 69 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)	- Earth Leakage Current	1000 μA max.
Distance Through Isolation		6 mm
Reliability	- Calculated MTBF	275'000 h (dual output models) 232'000 h (triple output models) (MIL-HDBK-217F, ground benign)
Housing Material		Aluminum
Housing Type		Metal Case
Mounting Type		Chassis Mount
Connection Type		Screw Terminal
Weight		550 g
Status Indicator		Indicated by green LED

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

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: 7a, 7c-I

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

- SCIP Reference Number

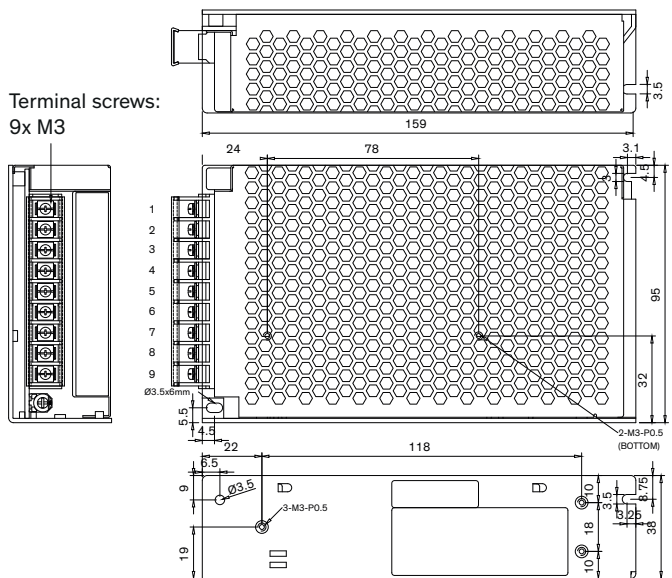
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Supporting Documents

Overview Link (for additional Documents)

www.tracopower.com/overview/txln080

Outline Dimensions



Dimensions in mm

Tolerances:

0-8: ± 0.2

8-25: ± 0.3

25-80: ± 0.5

80-250: ± 0.8

Screw Terminal			
Pin	Dual	Triple	
		TXLN 080-31xMx	TXLN 080-3125
1		AC (L)	
2		AC (N)	
3		PE	
4	NC	+Vout3	-Vout3
5	NC	-Vout3	+Vout3
6	-Vout1	-Vout1	
7	+Vout1	+Vout1	
8	-Vout2	-Vout2	
9	+Vout2	+Vout2	

NC: Not connected

Outputs are isolated to each other.