

- Compact metal case with screw terminal block
- Universal input 88-264 VAC
- Convection cooled (no-fan)
- High efficiency up to 82%
- EMI/EMC compliance with EN 61000-6-3 and EN 61000-6-1
- 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	82 W	+5 VDC	9'000 mA	+24 VDC	2'000 mA			80 %
TXLN 080-312M2	80 W	+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	82 W	+5 VDC	8'000 mA	+12 VDC	3'500 mA	+24 VDC	1'500 mA	82 %

Input Specifications

Input Voltage	- AC Range	88 - 264 VAC (Full Range)
	- DC Range	125 - 375 VDC (Designed for, no certification)
Input Frequency		47 - 63 Hz
Input Current	- Full Load & Vin = 115 VAC	2'500 mA max.
Input Inrush Current	- At 230 VAC	70 A max.
	- At 115 VAC	35 A max.
Recommended Input Fuse	(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 Iout max. 5 / 24 VDC model: 5.6 % of Iout max.
	- triple output	5 / 12 / -12 VDC model: 6.3 % of Iout max.
		5 / 15 / -15 VDC model: 6.3 % of Iout max.
		5 / 12 / 24 VDC model: 6.3 % of Iout max.
		(Output 1 requires 500 mA min.)
Temperature Coefficient		±0.02 %/K max.
Hold-up Time	- At 230 VAC	50 ms min.
	- At 115 VAC	12 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 Iout max.
Overvoltage Protection		115 - 140% of Vout nom. (Output 1 only)

Safety Specifications

Safety Standards	- Certification Documents	www.tracopower.com/overview/txln080
Protection Class		Class I (Prepared): Connection to PE
Pollution Degree		PD 2
Over Voltage Category		OVC II

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

EMC Specifications

EMI Emissions	<ul style="list-style-type: none"> - Conducted Emissions - Radiated Emissions - Harmonic Current Emissions - Voltage Fluctuations & Flicker 	EN 61000-6-3 (Generic Residential) EN 55032 class B (internal filter) EN 55032 class B (internal filter) EN 61000-3-2, class A EN 61000-3-3
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 	Air: EN 61000-4-2, ± 8 kV, perf. criteria A Contact: EN 61000-4-2, ± 4 kV, perf. criteria A EN 61000-4-3, 20 V/m, perf. criteria A EN 61000-4-4, ± 2 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

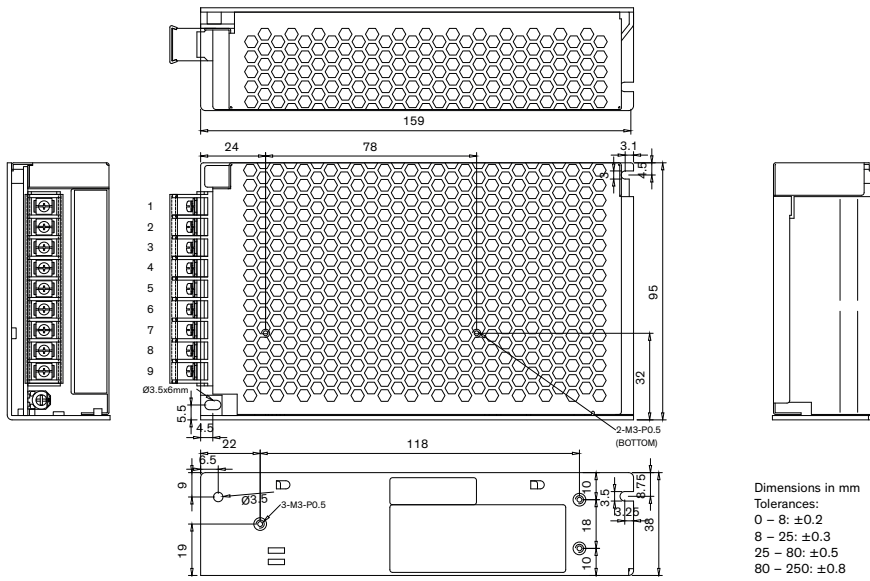
Relative Humidity		90% max. (non condensing)
Temperature Ranges	<ul style="list-style-type: none"> - Operating Temperature - Storage Temperature 	-20°C to +70°C -40°C to +85°C
Power Derating	<ul style="list-style-type: none"> - High Temperature - Low Input Voltage 	2.5 %/K above 50°C 0.83 %/V below 100 VAC
Cooling System		Natural convection (20 LFM)
Altitude During Operation		3'000 m max.
Switching Frequency		65 kHz typ. (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 M Ω min.
Leakage Current (at 264 VAC)	- Touch Current	1000 μ A max.
Housing Material		Aluminium
Connection Type		Screw Terminal
Status Indicator		Indicated by green LED
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/txn080
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Outline Dimensions



Screw Terminal		
Pin	Dual	Triple
1	AC (N)	
2	AC (L)	
3	FG	
4	NC	-Vout3
5	NC	+Vout2
6	-Vout1	-Vout1
7	+Vout1	+Vout1
8	-Vout2	-Vout2
9	+Vout2	+Vout2