

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



UL 62368-1 IEC 62368-1

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 018-103	10 W	3.3 VDC (3.0 - 3.6 VDC)	3'000 mA	73 %
TXLN 018-105	15 W	5 VDC (4.5 - 5.5 VDC)	3'000 mA	78 %
TXLN 018-112	18 W	12 VDC (10.8 - 13.2 VDC)	1'500 mA	83 %
TXLN 018-115		15 VDC (13.5 - 16.5 VDC)	1'200 mA	84 %
TXLN 018-124		24 VDC (21.6 - 26.4 VDC)	750 mA	85 %

## Input Specifications

Input Voltage	- AC Range	Operational Range: <b>85 - 264 VAC</b> (Full Range) Rated Range: <b>100 - 240 VAC</b> (Full Range)
	- DC Range	Operational Range: <b>120 - 375 VDC</b> (Designed for, no certification) Polarity: <b>irrelevant</b>
Input Frequency		Operational Range: <b>47 - 63 Hz</b> Certified: <b>50/60 Hz</b>
Input Current	- Full Load & Vin = 115 VAC	<b>500 mA max.</b>
Power Consumption	- No load & Vin = 230 VAC	<b>150 mW max.</b> (Ready to meet ErP directive)
Input Inrush Current	- At 230 VAC	<b>50 A max.</b>
	- At 115 VAC	<b>30 A max.</b>
Input Protection		<b>T 2 A / 250 VAC</b> (Internal Fuse)
Recommended Input Fuse		<b>2'000 mA</b> (slow blow) (The need of an external fuse has to be assessed in the final application.)

## Output Specifications

Output Voltage Adjustment		<b>±10%</b> (By trim potentiometer) Output power must not exceed rated power!
Voltage Set Accuracy		<b>±3% max.</b> (3.3 Vout model)
		<b>±2% max.</b> (5 Vout model)
		<b>±1% max.</b> (other models)
Regulation	- Input Variation (Vmin - Vmax)	<b>1.5% max.</b> (3.3 Vout model)
		<b>1% max.</b> (5 Vout model)
		<b>0.5% max.</b> (other models)
	- Load Variation (0 - 100%)	<b>3% max.</b> (3.3 Vout model)
		<b>2% max.</b> (5 Vout model)
Ripple and Noise (20 MHz Bandwidth)	3.3 VDC model:	<b>80 mVp-p max.</b> (w/ 0.1 µF // 47 µF)
	5 VDC model:	<b>80 mVp-p max.</b> (w/ 0.1 µF // 47 µF)
	12 VDC model:	<b>120 mVp-p max.</b> (w/ 0.1 µF // 47 µF)
	15 VDC model:	<b>150 mVp-p max.</b> (w/ 0.1 µF // 47 µF)
	24 VDC model:	<b>200 mVp-p max.</b> (w/ 0.1 µF // 47 µF)
Minimum Load		<b>Not required</b>
Temperature Coefficient		<b>±0.03 %/K max.</b>
Hold-up Time	- At 230 VAC	<b>60 ms min.</b>
	- At 115 VAC	<b>16 ms min.</b>
Start-up Time	- At 230 VAC	<b>1'000 ms max.</b>
	- At 115 VAC	<b>1'000 ms max.</b>
Short Circuit Protection		<b>Continuous, Automatic recovery</b>
Output Current Limitation		<b>105% typ.</b> of Iout max.
Overvoltage Protection		<b>115 - 140%</b> of Vout nom.

## Safety Specifications

Safety Standards	- IT / Multimedia Equipment	<b>EN 62368-1</b> <b>IEC 62368-1</b> <b>UL 62368-1</b>
	- Certification Documents	<a href="http://www.tracopower.com/overview/txln018">www.tracopower.com/overview/txln018</a>
Protection Class		<b>Class I</b> (Prepared): <b>Connection to PE</b>
Pollution Degree		<b>PD 2</b>
Over Voltage Category		<b>OVC II</b>

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

## 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 A
	- Voltage Fluctuations & Flicker		EN 61000-3-3
EMS Immunity			EN 55024 (IT Equipment)
	- 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 A
		L to PE:	EN 61000-4-5, ±2 kV, perf. criteria A
	- 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 C

## General Specifications

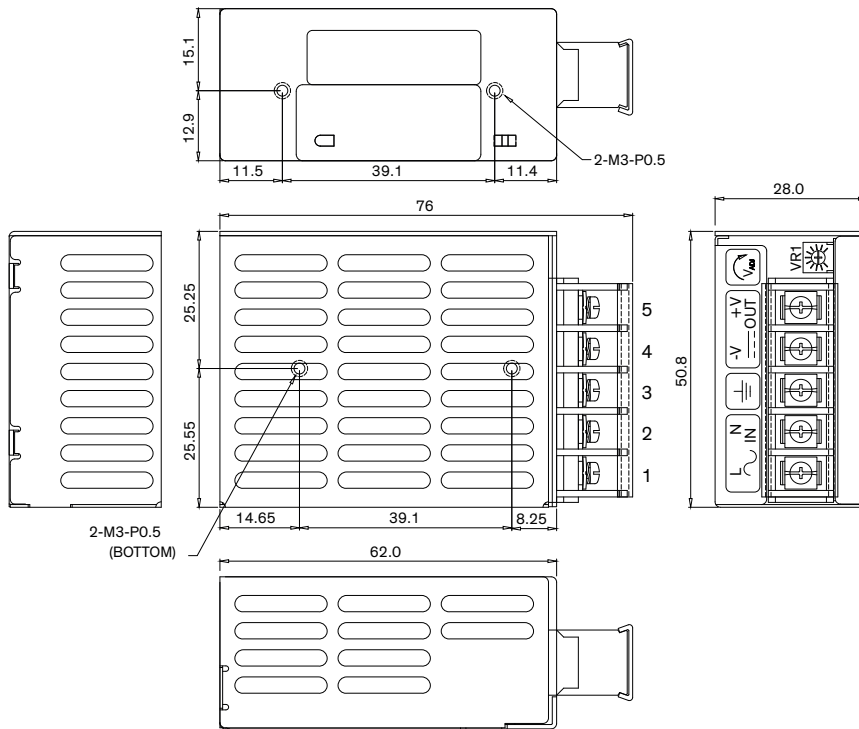
Relative Humidity		90% max. (non condensing)
Temperature Ranges	- Operating Temperature	-20°C to +70°C
	- Storage Temperature	-40°C to +85°C
Power Derating	- High Temperature	2.5 %/K above 50°C
	- Low Input Voltage	0.67 %/V below 100 VAC
Cooling System		Natural convection (20 LFM)
Altitude During Operation		2'000 m max.
Switching Frequency		90 - 110 kHz (PWM)
Insulation System		Reinforced Insulation
Isolation Test Voltage	- Input to Output, 60 s	3'000 VAC
	- Input to Case or PE, 60 s	1'800 VAC
	- Output to Case or PE, 60 s	500 VAC
Isolation Resistance	- Input to Output, 500 VDC	100 M $\Omega$ min.
Isolation Capacitance	- Input to Output, 100 kHz, 1 V	10'000 pF max.
Leakage Current (at 264 VAC)	- Earth Leakage Current	500 $\mu$ A max.
Reliability	- Calculated MTBF	626'000 h (MIL-HDBK-217F, ground benign)
Housing Material		Aluminum
Housing Type		Metal Case
Mounting Type		Chassis Mount
Connection Type		Screw Terminal
Weight		130 g
Status Indicator		Indicated by green LED
Environmental Compliance	- REACH Declaration	<a href="http://www.tracopower.com/info/reach-declaration.pdf">www.tracopower.com/info/reach-declaration.pdf</a>
	- RoHS Declaration	REACH SVHC list compliant REACH Annex XVII compliant <a href="http://www.tracopower.com/info/rohs-declaration.pdf">www.tracopower.com/info/rohs-declaration.pdf</a> Exemptions: No Exemptions

## Supporting Documents

Overview Link (for additional Documents)	<a href="http://www.tracopower.com/overview/txln018">www.tracopower.com/overview/txln018</a>
------------------------------------------	----------------------------------------------------------------------------------------------

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

## Outline Dimensions



Screw Terminal	
Pin	Function
1	AC (L)
2	AC (N)
3	PE
4	-Vout
5	+Vout

Dimensions in mm

Tolerances:

0-8:  $\pm 0.2$

8-25:  $\pm 0.3$

25-80:  $\pm 0.5$

Mounting screws

Max. screw penetration depth: 4.0

Max. screw locked torque: 0.8 Nm