

- Compact metal case with screw terminal block
- Universal input 90-264 VAC
- 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
- Remote On/Off and Remote Sense
- Standard features: Power Good Signal, Load Sharing, 12 V Standby Output
- 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 960-112	960 W	12 VDC (10.8 - 13.2 VDC)	80'000 mA	87 %
TXLN 960-115		15 VDC (13.5 - 16.5 VDC)	64'000 mA	88 %
TXLN 960-124		24 VDC (21.6 - 26.4 VDC)	40'000 mA	88 %
TXLN 960-148		48 VDC (43.2 - 52.8 VDC)	20'000 mA	89 %

### Input Specifications

Input Voltage	- AC Range	Operational Range: <b>90 - 264 VAC</b> (Full Range) Rated Range: <b>100 - 240 VAC</b> (Full Range)
	- DC Range	Operational Range: <b>127 - 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 = 230 VAC - Full load & Vin = 115 VAC	<b>6'500 mA max.</b> <b>10'500 mA max.</b>
Input Inrush Current	- At 230 VAC - At 115 VAC	<b>90 A max.</b> <b>50 A max.</b>
Power Factor	- At 230 VAC - At 115 VAC	<b>0.95 min.</b> (Active Power Factor Correction) <b>0.95 min.</b> (Active Power Factor Correction)
Input Protection		<b>T 12 A / 250 VAC</b> (Internal Fuse)
Recommended Input Fuse		<b>12'000 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>±1% max.</b>
Regulation	- Input Variation (Vmin - Vmax) - Load Variation (0 - 100%)	<b>0.5% max.</b> <b>1% max.</b>
Ripple and Noise (20 MHz Bandwidth)		12 VDC model: <b>150 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) 48 VDC model: <b>250 mVp-p max.</b> (w/ 0.1 µF    47 µF)
Capacitive Load		<b>108'000 µF max.</b>
Minimum Load		<b>Not required</b>
Temperature Coefficient		<b>±0.03 %/K max.</b>
Hold-up Time	- At 230 VAC - At 115 VAC	<b>14 ms min.</b> <b>14 ms min.</b>
Start-up Time	- At 230 VAC	<b>2'000 ms max.</b>
Short Circuit Protection		<b>Continuous, Automatic recovery</b>
Output Current Limitation		<b>105 - 135% of Iout max.</b>
Overvoltage Protection		<b>115 - 140% of Vout nom.</b>
Load Share Function	- Refer to application note	<a href="http://www.tracopower.com/overview/txln960">www.tracopower.com/overview/txln960</a>
Load Share Accuracy		<b>10%</b>

### Safety Specifications

Standards	- IT / Multimedia Equipment  - Certification Documents	<b>EN 62368-1</b> <b>IEC 62368-1</b> <b>UL 62368-1</b> <a href="http://www.tracopower.com/overview/txln960">www.tracopower.com/overview/txln960</a>
Protection Class		<b>Class I (Prepared): Connection to PE</b>
Pollution Degree		<b>PD 2</b>
Over Voltage Category		<b>OVC II</b>

### EMC Specifications

EMI (Emissions)	- Conducted Emissions - Radiated Emissions - Harmonic Current Emissions - Voltage Fluctuations & Flicker	<b>EN 55032 class B</b> (internal filter) <b>EN 55032 class B</b> (internal filter) <b>EN 61000-3-2, class D</b> <b>EN 61000-3-3</b>
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All specifications valid at 230 VAC, resistive full load and +25°C after warm-up time, unless otherwise stated.

<b>EMS (Immunity)</b>		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, 10 V/m, perf. criteria A
	- EFT (Burst) / Surge	EN 61000-4-4, ±2 kV, perf. criteria A
	- Conducted RF Disturbances	L to L: EN 61000-4-5, ±2 kV, perf. criteria B L to PE: EN 61000-4-5, ±4 kV, perf. criteria B
	- PF Magnetic Field	EN 61000-4-6, 10 Vrms, perf. criteria A
	- Voltage Dips & Interruptions	Continuous: EN 61000-4-8, 30 A/m, perf. criteria A 1 s: EN 61000-4-8, 300 A/m, perf. criteria A 230 VAC / 50 Hz: EN 61000-4-11 30%, 25 periods, perf. criteria C >95%, 0.5 periods, perf. criteria B >95%, 250 periods, perf. criteria C

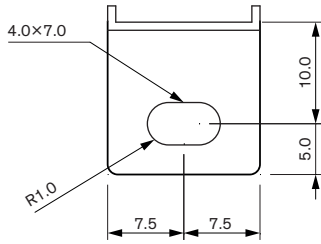
### General Specifications

<b>Relative Humidity</b>		90% max. (non condensing)
<b>Temperature Ranges</b>	- Operating Temperature - Storage Temperature	-20°C to +70°C -40°C to +85°C
<b>Power Derating</b>	- High Temperature - Low Input Voltage	2.5 %/K above 50°C Depending on model See application note: <a href="http://www.tracopower.com/overview/txln960">www.tracopower.com/overview/txln960</a>
<b>Over Temperature Protection Switch Off</b>	- Protection Mode	90°C min. / 95°C typ. / 100°C max. (Automatic recovery)
<b>Cooling System</b>		Forced air cooling (with internal fan)
<b>Fan Power Source</b>	- Characteristic - Output Voltage - Output Current	Constant fan speed (continuous) 12 VDC 480 mA max. (6'800 RPM / 38 CFM)
<b>Standby Power Source</b>	- Output Voltage - Output Current	12 VDC 300 mA max.
<b>Remote Control</b>	- Voltage Controlled Remote	See application note: <a href="http://www.tracopower.com/overview/txln960">www.tracopower.com/overview/txln960</a>
<b>Altitude During Operation</b>		4'000 m max.
<b>Regulator Topology</b>		Flyback Converter
<b>Switching Frequency</b>		55 - 65 kHz (PWM)
<b>Insulation System</b>		Reinforced Insulation
<b>Isolation Test Voltage</b>	- 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
<b>Isolation Resistance</b>	- Input to Output, 500 VDC	100 MΩ min.
<b>Isolation Capacitance</b>	- Input to Output, 100 kHz, 1 V	20'000 pF max.
<b>Leakage Current (at 264 VAC / 60Hz)</b>	- Earth Leakage Current	1500 μA max.
<b>Distance Through Isolation</b>		6 mm
<b>Reliability</b>	- Calculated MTBF	84'100 h (MIL-HDBK-217F, ground benign)
<b>Housing Material</b>		Aluminum
<b>Housing Type</b>		Metal Case
<b>Mounting Type</b>		Chassis Mount
<b>Connection Type</b>		Screw Terminal
<b>Weight</b>		2'500 g
<b>Power OK Signal</b>	- Power OK - Power Off	Voltage source output High level Low level (Refers to 'PG' and 'GND' Pin)
<b>Status Indicator</b>		Indicated by green LED

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### Mounting Bracket (included)



Dimensions in mm

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

