TRACO POWER

AC/DC Power Supply

TXLN 750 Series, 750 Watt

- **Compact metal case with screw terminal block**
- **Universal input 90-264 VAC**
- **High efficiency up to 90%**
- **Active PFC >0.95**
- **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**

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 750-112	750 W	12 VDC (10.8 - 13.2 VDC)	62'500 mA	88 %
TXLN 750-124		24 VDC (21.6 - 26.4 VDC)	31'300 mA	88 %
TXLN 750-148		48 VDC (43.2 - 52.8 VDC)	15'800 mA	90 %

Input Specifications

Input Voltage	- AC Range	90 - 264 VAC (Full Range)
	- DC Range	127 - 375 VDC (Designed for, no certification)
Input Frequency		47 - 63 Hz
Input Current	- Full Load & Vin = 115 VAC	9'800 mA max.
Input Inrush Current	- At 230 VAC	90 A max.
	- At 115 VAC	50 A max.
Power Factor	- At 230 VAC	0.95 min. (Active Power Factor Correction)
Recommended Input Fuse		(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		±1% max.
Regulation	- Input Variation (Vmin - Vmax)	0.5% max.
	- Load Variation (0 - 100%)	1% max.
Ripple and Noise (20 MHz Bandwidth)		120 mVp-p max. (w/ 0.1 µF // 47 µF)
Capacitive Load		Infinite
Minimum Load		Not required
Hold-up Time	- At 230 VAC	16 ms min.
	- At 115 VAC	16 ms min.
Start-up Time	- At 230 VAC	2'000 ms max.
Short Circuit Protection		Continuous, Automatic recovery
Output Current Limitation		105 - 135% of Iout max.
Overvoltage Protection		115 - 140% of Vout nom.
Load Share Function	- Refer to application note	www.tracopower.com/overview/txln750
Load Share Accuracy		10%

Safety Specifications

Safety Standards	- IT / Multimedia Equipment	EN 62368-1 IEC 62368-1 UL 62368-1
	- Certification Documents	www.tracopower.com/overview/txln750
Protection Class		Class I (Prepared): Connection to PE
Pollution Degree		PD 2
Over Voltage Category		OVC II

EMC Specifications

EMI Emissions		EN 61000-6-3 (Generic Residential)
	- 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			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, 20 V/m, perf. criteria A
	- EFT (Burst) / Surge		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
	- Conducted RF Disturbances		EN 61000-4-6, 10 Vrms, perf. criteria A
	- PF Magnetic Field	Continuous:	EN 61000-4-8, 30 A/m, perf. criteria A
		1 s:	EN 61000-4-8, 300 A/m, perf. criteria A
	- Voltage Dips & Interruptions	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

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		1 %/V below 100 VAC
Over Temperature Protection Switch Off	- Protection Mode		90°C min. / 95°C typ. / 100°C max. (Automatic recovery)
Cooling System			Forced air cooling (with internal fan)
Standby Power Source	- Output Voltage		12 VDC
	- Output Current		100 mA max.
Remote Control	- Voltage Controlled Remote	See application note:	www.tracopower.com/overview/txln750
Altitude During Operation			4'000 m max. (The ambient temperature has to be derated by 5 K / 1000 m when operated above 2000 m)
Switching Frequency			65 kHz min. (PWM)
Insulation System			Reinforced Insulation
Working Voltage (rated)			291 VAC
Isolation Test Voltage	- Input to Output, 60 s		3'000 VAC
	- Input to Case or PE, 60 s		1'500 VAC
	- Output to Case or PE, 60 s		500 VAC
Isolation Resistance	- Input to Output, 500 VDC		100 MΩ min.
Leakage Current (at 264 VAC / 60Hz)	- Touch Current		1500 µA max.
Reliability	- Calculated MTBF		107'000 h
Housing Material			Aluminium
Connection Type			Screw Terminal
Weight			2.5 kg
Power OK Signal			Voltage source output
	- Power OK		High level
	- Power Off		Low level
			(Refers to 'PG' and 'GND' Pin)
Status Indicator			Indicated by green LED
Sense Function			
Environmental Compliance	- REACH Declaration		www.tracopower.com/info/reach-declaration.pdf
			REACH SVHC list compliant
			REACH Annex XVII compliant
	- RoHS Declaration		www.tracopower.com/info/rohs-declaration.pdf
			Exemptions: 6a, 6c, 7a, 7c-I, 7c-II

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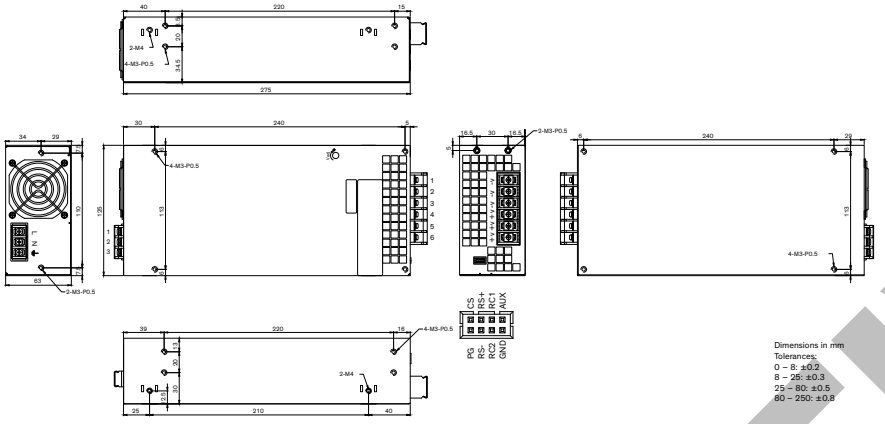
Supporting Documents

Overview Link (for additional Documents) www.tracopower.com/overview/txln750

Outline Dimensions



Input	
CN1	
Pin	Function
1	AC (L)
2	AC (N)
3	FG

Output	
CN11	
Pin	Function
1-3	+ Vout
4-6	– Vout

Signal	
CN3	
Pin	Function
1	CS
2	PG
3	+Sense
4	–Sense
5	–Remote
6	+Remote
7	Standby
8	GND

CN1:
3 pin, 10mm pitch
with PC cover

CN11:
6 pin, 11 mm pitch

CN3:
HRS DF11-8DP-2DSA