

- Compact metal case with screw terminal block
- Universal input 90-264 VAC
- High efficiency up to 90%
- 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 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	Operational Range: 90 - 264 VAC (Full Range)
	- DC Range	Rated Range: 100 - 240 VAC (Full Range) Operational Range: 127 - 375 VDC (Designed for, no certification) Polarity: irrelevant
Input Frequency		Operational Range: 47 - 63 Hz
		Certified: 50/60 Hz
Input Current	- Full load & $V_{in} = 115 \text{ VAC}$	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)
	- At 115 VAC	0.95 min. (Active Power Factor Correction)
Input Protection		T 12 A / 250 VAC (Internal Fuse in L)
Recommended Input Fuse		12'000 mA (slow blow) (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 ($V_{min} - V_{max}$)	0.5% max.
	- Load Variation (0 - 100%)	1% max.
Ripple and Noise (20 MHz Bandwidth)	12 VDC model:	120 mVp-p max. (w/ 0.1 μF 47 μF)
	24 VDC model:	200 mVp-p max. (w/ 0.1 μF 47 μF)
	48 VDC model:	240 mVp-p max. (w/ 0.1 μF 47 μF)
Capacitive Load		108'000 μF max.
Minimum Load		Not required
Temperature Coefficient		±0.03 %/K max.
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 I_{out} max.
Overvoltage Protection		115 - 140% of V_{out} nom.
Load Share Function	- Refer to application note	www.tracopower.com/overview/txln750
Load Share Accuracy		10%

Safety Specifications

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 See application note: www.tracopower.com/info/protection-class.pdf
Pollution Degree		PD 2
Over Voltage Category		OVC II

All specifications valid at 230 VAC, resistive full load and +25°C after warm-up time, unless otherwise stated.

EMC Specifications

EMI (Emissions)	- Conducted Emissions	EN 55032 class A (internal filter)
	- Radiated Emissions	EN 55032 class B (internal filter)
	- Harmonic Current Emissions	EN 55032 class A (internal filter)
	- Voltage Fluctuations & Flicker	EN 55032 class B (internal filter)
EMS (Immunity)		EN 61000-3-2, class D
		EN 61000-3-3
	- Electrostatic Discharge	Air: EN 55024 (IT Equipment)
		Contact: EN 55035 (Multimedia)
	- RF Electromagnetic Field	EN 61000-4-2, ± 8 kV, perf. criteria A
	- EFT (Burst) / Surge	EN 61000-4-2, ± 4 kV, perf. criteria A
		EN 61000-4-3, 10 V/m, perf. criteria A
		EN 61000-4-4, ± 2 kV, perf. criteria A
		L to L: EN 61000-4-5, ± 2 kV, perf. criteria B
		L to PE: EN 61000-4-5, ± 4 kV, perf. criteria B
	- 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
See application note: www.tracopower.com/overview/txln750		
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)
Fan Power Source	- Characteristic	Constant fan speed (continuous)
	- Output Voltage	12 VDC
	- Output Current	480 mA max.
		(6'800 RPM / 38 CFM)
Standby Power Source	- Output Voltage	12 VDC
	- Output Current	300 mA max.
Remote Control	- Voltage Controlled Remote	See application note: www.tracopower.com/overview/txln750
Altitude During Operation		4'000 m max.
Regulator Topology		Flyback Converter
Switching Frequency		55 - 65 kHz (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 M Ω min.
Isolation Capacitance	- Input to Output, 100 kHz, 1 V	20'000 pF max.
Leakage Current (at 264 VAC / 60Hz)	- Earth Leakage Current	1500 μ A max.
Distance Through Isolation		6 mm
Reliability	- Calculated MTBF	107'000 h (MIL-HDBK-217F, ground benign)
Housing Material		Aluminum
Housing Type		Metal Case

All specifications valid at 230 VAC, resistive full load and +25°C after warm-up time, unless otherwise stated.

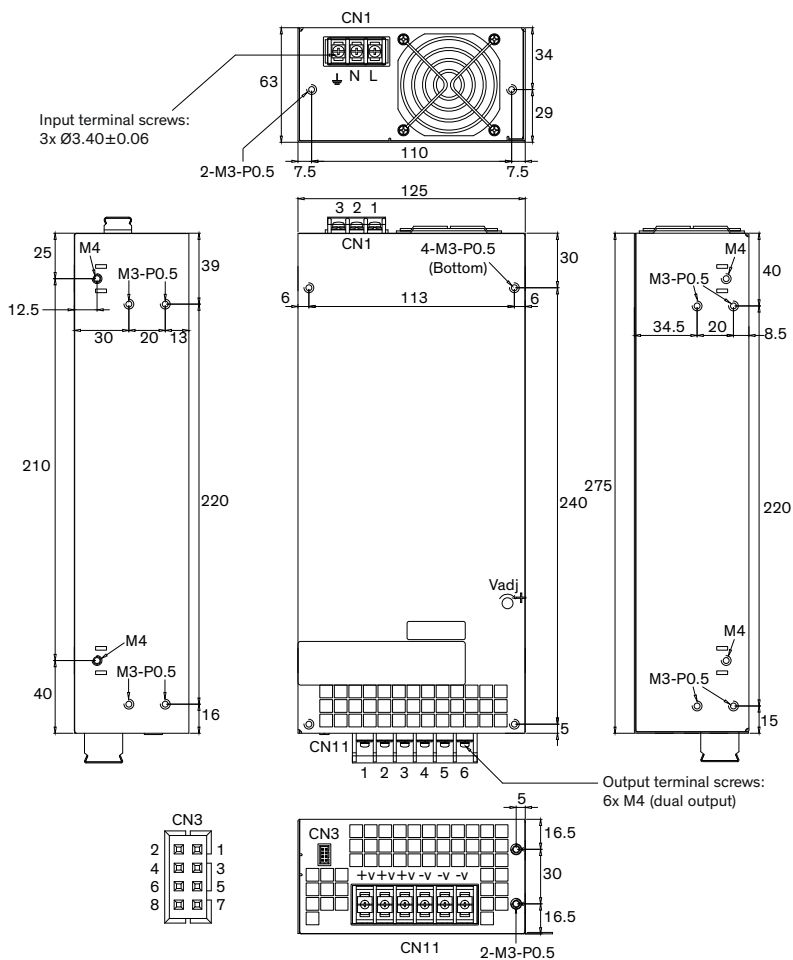
Mounting Type	Chassis Mount
Connection Type	Screw Terminal
Weight	2'500 g
Power OK Signal	Voltage source output
- Power OK	High level
- Power Off	Low level
	(Refers to 'PG' and 'GND' Pin)
Status Indicator	Indicated by green LED
Sense Function	(to be done)
Environmental Compliance	www.tracopower.com/info/reach-declaration.pdf
- REACH Declaration	REACH SVHC list compliant
	REACH Annex XVII compliant
- RoHS Declaration	www.tracopower.com/info/rohs-declaration.pdf
	Exemptions: 7(a), 7(c)-I
	(RoHS exemptions refer to the component concentration only, not to the overall concentration in the product (O5A rule).)
- SCIP Reference Number	552395cf-3028-43ab-b613-08eaec8df079

Additional Information

Supporting Documents	www.tracopower.com/overview/txln750
Frequently Asked Questions	www.tracopower.com/glossary-faq
Glossary	www.tracopower.com/info/glossary.pdf

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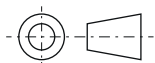
Outline Dimensions



Dimensions in mm
Tolerances:
0-8: ±0.2
8-25: ±0.3
25-80: ±0.5
80-250: ±0.8

Mounting screws
Max. screw penetration depth: 3.0
Max. screw locked torque M3: 0.8 Nm
Max. screw locked torque M4: 1.6 Nm

Included in shipment:
- 6x M3 mounting screw



Input

CN1

Pin	Function
1	AC (L)
2	AC (N)
3	PE

Output

CN11

Pin	Function
1-3	+ Vout
4-6	- Vout

Signal

CN3

Pin	Function
1	LS
2	PG
3	+Sense
4	-Sense
5	-Remote
6	+Remote
7	Standby
8	GND

CN1:
3 pin, 10mm pitch
with PC cover
Max. terminal screw locked
torque: 0.7 Nm

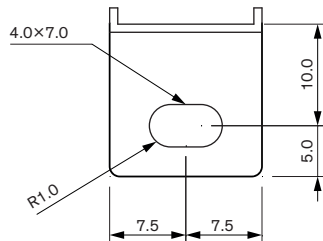
CN11:
6 pin, 11 mm pitch
Max. terminal screw locked
torque: 0.7 Nm

CN3 Housing Type:
HRS DF11-8DP-2DSA

CN3 Mating Housing:
HRS DF11-8DS-2C

CN3 Crimp Contact:
HRS DF11-EP22SCB

Mounting Bracket (included)



Dimensions in mm

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

