

- Compact metal case with screw terminal block
- Universal input 85 - 264 Vac
- EMI/EMC compliance with EN 61000-6-3 and EN 61000-6-1
- Compliance to EN 61000-3-2
- Short circuit and overvoltage protection
- International safety approvals
- 3 year product warranty



The TRACO POWER TXL 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	Power max.	Output voltage nom.	Output current max.	Efficiency typ.
TXL 050-05S	50 W	5 VDC	10.0 A	78 %
TXL 060-12S	60 W	12 VDC	5.0 A	81 %
TXL 060-15S	60 W	15 VDC	4.0 A	83 %
TXL 060-24S	60 W	24 VDC	2.5 A	84 %

Input Specifications

Input voltage range	<ul style="list-style-type: none"> – nominal – AC range (universal input) – DC range 	100 – 240 VAC 88 – 264 VAC 125 – 375 VDC (Designed for, no certification)
Input frequency		47 – 63 Hz
Input current at full load	– at 100 VAC	1.6 A max.
Input inrush current	– at 115 VAC / 230 VAC	30 A max. / 50 A max.
Zero load power consumption		0.5 W max. (green mode function)
Recommended circuit breaker (characteristic C or slow bow fuse)		5 A

Output Specifications

Output voltage adjustment range		±10 %
Regulation	<ul style="list-style-type: none"> – Input variation – Load variation (20 - 100%) 	1.0 % max. 1.0 % max.
Minimum load		not required
Temperature coefficient		0.02 %/K
Start-up time		1 s max.
Rise time		30 ms max.
Hold-up time	– at 230 VAC	60 ms min.
Ripple and noise (20Mhz Bandwidth)	5 Vout model: 12 Vout model: 15 & 24 Vout models: – measured with external capacitors:	70 mVp-p typ. 120 mVp-p typ. 150 mVp-p typ. 0.1 µF and 47 µF parallel capacitor
Overload protection by current limitation		105 – 150 % of Iout max.
Short circuit protection		hiccup mode (automatic recovery)
Overvoltage protection (Latch off, recovery after restart)		115 – 140 % of nominal Vout
Capacitive load		www.tracopower.com/products/txl-capload.pdf

General Specifications

Temperature ranges	<ul style="list-style-type: none"> – Operating – Storage 	–20°C to +70°C (with derating) –40°C to +85°C
Output power derating	<ul style="list-style-type: none"> – Temperature – Low input voltage 	2.5 %/K above +50°C 0.8 %/V below 100 VAC
Cooling		natural convection (20 lfm), no internal fan
Humidity (non condensing)		20 – 90 % rel. H max.
Altitude during operation		2000 m
Isolation voltage (60 sec.)	<ul style="list-style-type: none"> – Input / Output – Input / PE – Output / PE 	3000 VAC 1500 VAC 500 VAC
Isolation resistance (at 500 VDC)		100 MOhm min.
Leakage current (at 264 VAC/60Hz)		0.75 mA max.

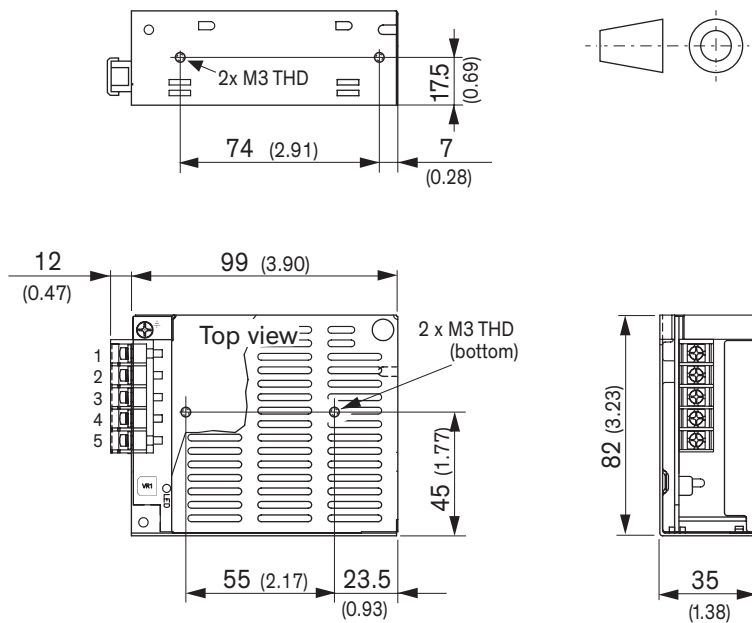
All specifications valid at nominal input voltage, full load and +25°C after warm-up time unless otherwise stated.

General Specifications (continued)

Switching frequency	65 kHz typ. (pulse width modulation)
Reliability (calculated MTBF)	> 335'000 h
Electromagnetic compatibility (EMC), emissions <ul style="list-style-type: none"> – Conducted input RI suppression – Harmonic current emissions – Voltage flicker 	EN 55032 class B, FCC Part 15 level B IEC/EN 61000-3-2, class A IEC/EN 61000-3-3
Electromagnets compatibility (EMC), immunity <ul style="list-style-type: none"> – Electrostatic discharge ESD – RF field immunity – Electrical fast transients/burst immunity – Surge – Conducted RF – Magnetic field – Voltage dip 	according EN 55024 & EN 55035 IEC/EN 61000-4-2, 4 kV / 8 kV, perf. criteria A IEC/EN 61000-4-3, 3 V/m, perf. criteria A IEC/EN 61000-4-4, ± 2 kV, perf. criteria A IEC/EN 61000-4-5, 1 kV / 2 kV, perf. criteria A IEC/EN 61000-4-6, 3 Vrms perf. criteria A IEC/EN 61000-4-8, 3 A/m perf. criteria A IEC/EN 61000-4-11 >95 %, perf. criteria A, 0.5 periods 30 %, perf. criteria A, 25 periods >95 % perf. criteria B, 250 periods
Safety standards	UL 60950-1, IEC/EN 60950-1 UL 62368-1, IEC/EN 62368-1
Safety approvals <ul style="list-style-type: none"> – UL/cUL – CB report 	www.ul.com → certifications → File: e188913 www.tracopower.com/overview/txl
Environmental compliance <ul style="list-style-type: none"> – Reach – RoHS 	www.tracopower.com/products/reach-declaration.pdf RoHS directive 2011/65/EU
Connection	5 pole terminal pitch (9.5mm with plastic cover)
Casing material	nickel plated steel (cover), aluminium (chassis)
Weight	0.34 kg

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

Outline Dimensions



Screw Terminal	
Pin	Single
1	AC L
2	AC N
3	PE
4	- Vout
5	+ Vout

Max. terminal screw locked torque: 0.7 Nm
 Max. mounting screw locked torque: 0.8 Nm

Max. mounting screw penetration depth: 4.5 (1.77)

Dimensions in [mm], () = Inch
 Tolerances ± 0.5 (± 0.02)