

- 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 015-3.3S	10.0 W	3.3 VDC	3.0 A	74 %
TXL 015-05S	15.0 W	5 VDC	3.0 A	79 %
TXL 015-12S	15.6 W	12 VDC	1.3 A	84 %
TXL 015-15S	15.0 W	15 VDC	1.0 A	85 %
TXL 015-24S	15.1 W	24 VDC	0.63 A	86 %
TXL 015-48S	15.4 W	48 VDC	0.32 A	87 %

Input Specifications

Input voltage range	– nominal – AC range (universal input) – DC range	100 – 240 VAC 85 – 264 VAC 120 – 375 VDC (Designed for, no certification)
Input frequency		47 – 63 Hz
Input current at full load	– at 100 VAC	0.5 A max.
Input inrush current	– at 115 VAC / 230 VAC	30 A max. / 50 A max.
Zero load power consumption		0.3 W max. (green mode design)
Recommended circuit breaker (characteristic C or slow bow fuse)		5 A

Output Specifications

Output voltage adjustment range		±10 %
Regulation	– 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		50 ms max.
Hold-up time	– at 230 VAC	60 ms min.
Ripple and noise (20Mhz Bandwidth)	3.3 & 5 Vout models: 12 Vout model: 15 Vout model: 24 & 48 Vout models: – measured with external capacitors:	80 mVp-p typ. 120 mVp-p typ. 150 mVp-p typ. 200 mVp-p typ. 0.1 µF and 47 µF parallel capacitor
Overload protection by current limitation		over 105 % of Iout max.
Short circuit protection		hiccup mode (automatic recovery)
Overvoltage protection (Limiting voltage latch)		115 – 140 % of nominal Vout
Capacitive load		www.tracopower.com/products/txl-capload.pdf

General Specifications

Temperature ranges	– Operating – Storage	–20°C to +70°C (with derating) –40°C to +85°C
Output power derating	– Temperature	2.5 %/K above +50°C
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.)	– Input / Output – Input / PE – Output / PE	3'000 VAC 2'636 VDC 500 VDC
Isolation resistance (at 500 VDC)		100 MOhm min.
Leakage current (at 264 VAC/60Hz)		0.5 mA max.
Switching frequency		105 kHz typ. (pulse width modulation)
Reliability (calculated MTBF)		> 630'000 h

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

General Specifications (continued)

Electromagnetic compatibility (EMC), emissions		EN 55022 class B, FCC Part 15 level B IEC/EN 61000-3-2, class A IEC/EN 61000-3-3
– Conducted input RI suppression – Harmonic current emissions – Voltage flicker		
Electromagnets compatibility (EMC), immunity		according EN 55024
– Electrostatic discharge ESD – RF field immunity – Electrical fast transients/burst immunity – Surge – Conducted RF – Magnetic field – Voltage dip		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
Safety approvals		UL/cUL CB report www.ul.com → certifications → File: e188913 www.tracopower.com/overview/txl
Environmental compliance		Reach RoHS www.tracopower.com/products/reach-declaration.pdf RoHS directive 2011/65/EU
Connection		5 pole terminal pitch (762mm with plastic cover)
Casing material		aluminium (chassis and cover)
Weight		0.13 kg

Outline Dimensions

