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TRACO POWER

AC/DC Enclosed Power Supply

TXL 025 Series, 25 Watt

- **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**



IEC 60950-1 UL 60950-1
IEC 62368-1 UL 62368-1

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 025-3.3S	20 W	3.3 VDC	6.0 A	72 %
TXL 025-05S	25 W	5 VDC	5.0 A	79 %
TXL 025-12S	25 W	12 VDC	2.1 A	84 %
TXL 025-15S	25 W	15 VDC	1.7 A	85 %
TXL 025-24S	27 W	24 VDC	1.1 A	86 %
TXL 025-48S	27 W	48 VDC	0.57 A	88 %

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Input Specifications

Input voltage range	– nominal	100 – 240 VAC
	– AC range (universal input)	88 – 264 VAC
	– DC range	125 – 375 VDC (Designed for, no certification)
Input frequency		47 – 63 Hz
Input current at full load	– at 100 VAC	0.65 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 function)
Recommended circuit breaker (characteristic C or slow bow fuse)		5 A

Output Specifications

Output voltage adjustment range		±10 %
Regulation	– Input variation	1.0 % max.
	– Load variation (20 - 100%)	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		60 ms min.
Ripple and noise (20Mhz Bandwidth)	3.3 & 5 Vout models:	70 mVp-p typ.
	12 Vout model:	120 mVp-p typ.
	15 & 24 Vout models:	150 mVp-p typ.
	48 Vout model:	200 mVp-p typ.
	– measured with external capacitors:	0.1 µF and 47 µF parallel capacitor
Overload protection by current limitation		105 – 180 % 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	–20°C to +70°C (with derating)
	– Storage	–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	3000 VAC
	– Input / PE	1500 VAC
	– Output / PE	500 VAC
Isolation resistance (at 500 VDC)		100 MOhm min.
Leakage current (at 264 VAC/60Hz)		0.5 mA max.
Switching frequency		65 kHz typ. (pulse width modulation)
Reliability (calculated MTBF)		> 450'000 h

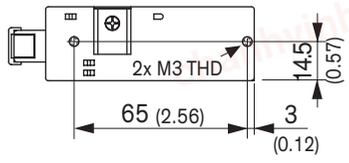
All specifications valid at nominal input voltage, full load and +25°C after warm-up time unless otherwise stated.

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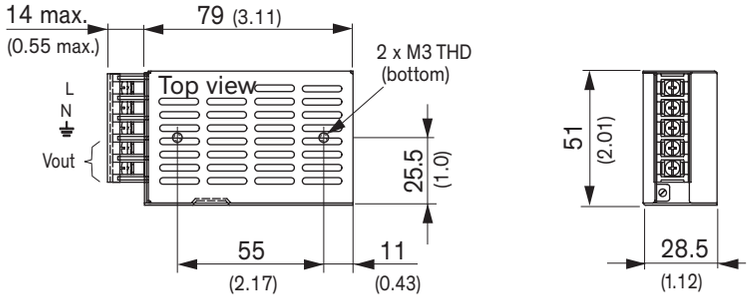
General Specifications (continued)

Electromagnetic compatibility (EMC), emissions		
	– Conducted input RI suppression	EN 55032 class B, FCC Part 15 level B
	– Harmonic current emissions	IEC/EN 61000-3-2, class A
	– Voltage flicker	IEC/EN 61000-3-3
Electromagnets compatibility (EMC), immunity		according EN 55024 & EN 55035
	– Electrostatic discharge ESD	IEC/EN 61000-4-2, 4 kV / 8 kV, perf. criteria A
	– RF field immunity	IEC/EN 61000-4-3, 23 V/m, perf. criteria A
	– Electrical fast transients/burst immunity	IEC/EN 61000-4-4, ±2 kV, perf. criteria A
	– Surge	IEC/EN 61000-4-5, 1 kV / 2 kV, perf. criteria A
	– Conducted RF	IEC/EN 61000-4-6, 3 Vrms perf. criteria A
	– Magnetic field	IEC/EN 61000-4-8, 3 A/m perf. criteria A
	– Voltage dip	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/cUL	www.ul.com → certifications → File: e188913
	– CB report	www.tracopower.com/overview/txl
Environmental compliance	– Reach	www.tracopower.com/products/reach-declaration.pdf
	– RoHS	RoHS directive 2011/65/EU
Connection		5 pole terminal pitch (7.62mm with plastic cover)
Casing material		nickel plated steel (chassis and cover)
Weight		0.18 kg

Outline Dimensions



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



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