

- Compact metal case with screw terminal block
- Multiple output models with isolated outputs
- 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 TRACOPOWER 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 nom.	Output voltage			Output current max.			Efficiency typ.
		Vout 1	Vout 2	Vout 3	Vout 1	Vout 2	Vout 3	
TXL 100-3.3S	76 W	3.3 VDC			23.0 A			74 %
TXL 100-05S	100 W	5 VDC			20.0 A			78 %
TXL 100-12S	102 W	12 VDC			8.5 A			83 %
TXL 100-15S	105 W	15 VDC			7.0 A			84 %
TXL 100-24S	103 W	24 VDC			4.3 A			84 %
TXL 100-48S	110 W	48 VDC			2.3 A			86 %
TXL 100-0512DI ¹⁾	100 W	+5 VDC	+12 VDC		12.0 A	7.0 A		81 %
TXL 100-0524DI ¹⁾	100 W	+5 VDC	+24 VDC		12.0 A	3.5 A		82 %
TXL 100-0521TI ¹⁾	100 W	+5 VDC	+12 VDC	-5 VDC	12.0 A	5.0 A	1.5 A	78 %
TXL 100-0522TI ¹⁾	100 W	+5 VDC	+12 VDC	-12 VDC	12.0 A	5.0 A	1.5 A	78 %
TXL 100-0533TI ¹⁾	100 W	+5 VDC	+15 VDC	-15 VDC	12.0 A	4.0 A	1.5 A	78 %
TXL 100-0534TI ¹⁾	100 W	+5 VDC	+12 VDC	+24 VDC	12.0 A	4.0 A	2.0 A	78 %

¹⁾ Total power should not exceed max. output power

Input Specifications

Input voltage range	– 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	2.8 A max.
Input inrush current	– at 115 VAC / 230 VAC	35 A max. / 70 A max.
Zero load power consumption	only single output models:	1.0 W max. (green mode function)
Recommended circuit breaker (characteristic C or slow bow fuse)		10 A

Output Specifications

Output voltage adjustment range		±10 % (only Vout 1)
Regulation	– Input variation – Load variation (20 – 100%)	1.0 % max. 2.0 % max. 5.0 % max.
Minimum load	single output models: dual / triple output models:	not required Vout 1 requires 1.0 A
Temperature coefficient		0.02 %/K
Start-up time		1 s max.
Rise time		20 ms max.
Hold-up time	– at 230 VAC	60 ms min.
Ripple and noise (20Mhz Bandwidth)	– measured with external capacitors: – Positive Vout – Negative Vout	0.1 µF and 47 µF parallel capacitor 3.3 & 5 Vout: 70 mVp-p typ. 12 Vout: 120 mVp-p typ. 15 Vout: 150 mVp-p typ. 24 Vout: 240 mVp-p typ. 48 Vout: 250 mVp-p typ. – 5 Vout: 100 mVp-p typ. – 12 Vout: 150 mVp-p typ. – 15 Vout: 200 mVp-p typ.
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 (only Vout 1)
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 – Low input voltage	2.5 %/K above +45°C 0.7 %/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.)	– Input / Output – Input / PE – Output / PE	3'000 VAC 2'876 VDC 500 VDC
Isolation resistance (at 500 VDC)		100 MOhm min.
Leakage current (at 264 VAC/60Hz)		1 mA max.

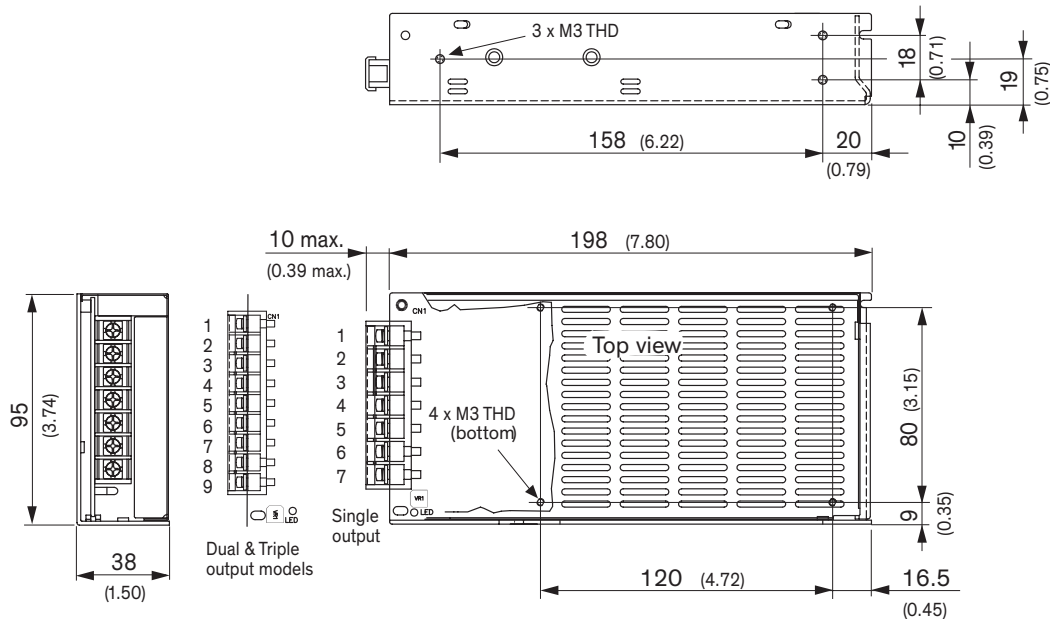
All specifications valid at nominal input voltage, full load and +25°C after warm-up time unless otherwise stated.

General Specifications (continued)

Switching frequency	65 kHz typ. (pulse width modulation)
Reliability (calculated MTBF)	single output models: > 270'000 h dual output models: > 260'000 h dual output models: > 245'000 h
Electromagnetic compatibility (EMC), emissions	– Conducted input RI suppression – Harmonic current emissions – Voltage flicker EN 55022 class B, FCC Part 15 level B IEC / EN 61000-3-2, class A IEC / EN 61000-3-3 (built-in PFC choke)
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, 4kV/8kV, perf. criteria A IEC / EN 61000-4-3, 20V/m, perf. criteria A IEC / EN 61000-4-4, ± 2 kV, perf. criteria A IEC / EN 61000-4-5, 1kV/2kV, 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
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	single output models: 7 pole terminal pitch (9.5mm with plastic cover) dual / triple output models: 9 pole terminal pitch (7.62mm with plastic cover)
Casing material	nickel plated steel (cover), aluminium (chassis)
Weight	single output models: 0.72 kg dual / triple output models: 0.80 kg

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

Outline Dimensions



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

Screw Terminal			
Pin	Single	Dual	Triple
1	AC L	AC L	AC L
2	AC N	AC N	AC N
3	PE	PE	PE
4	- Vout	No con.	+ Vout 3 *
5	- Vout	No con.	- Vout 3 *
6	+ Vout	- Vout 1	- Vout 1
7	+ Vout	+ Vout 1	+ Vout 1
8	-	- Vout 2	- Vout 2
9	-	+ Vout 2	+ Vout 2

* Opposite polarity for TXL 100-0534T1