

- 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 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 %

## Input Specifications

Input voltage range	<ul style="list-style-type: none"> <li>– nominal</li> <li>– AC range (universal input)</li> <li>– DC range</li> </ul>	100 – 240 VAC 88 – 264 VAC 125 – 375 VDC
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	<ul style="list-style-type: none"> <li>– Input variation</li> <li>– Load variation (20 - 100%)</li> </ul>	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		60 ms min.
Ripple and noise (20Mhz Bandwidth)	3.3 & 5 Vout models: 12 Vout model: 15 & 24 Vout models: 48 Vout model: – measured with external capacitors:	70 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		105 – 180 % of Iout max.
Short circuit protection		hiccup mode (automatic recovery)
Overvoltage protection (Limiting voltage latch)		115 – 140 % of nominal Vout
Capacitive load		<a href="http://www.tracopower.com/products/txl-capload.pdf">www.tracopower.com/products/txl-capload.pdf</a>

## General Specifications

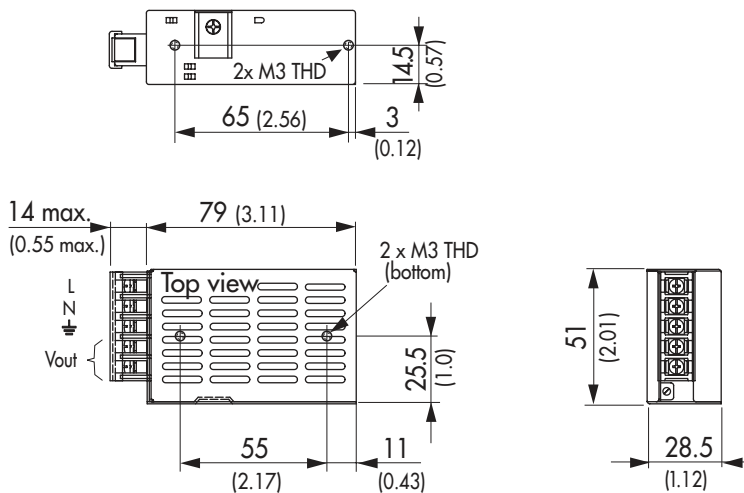
Temperature ranges	<ul style="list-style-type: none"> <li>– Operating</li> <li>– Storage</li> </ul>	–20°C to +70°C (with derating) –40°C to +85°C
Output power derating	– Temperature	2.5 %/K above +50°C
Cooling		natural convection (20 lfm), no internal fan
Humidity (non condensing)		20 – 90 % rel. H max.
Altitude during operation		2000 m
Isolation voltage (60 sec.)	<ul style="list-style-type: none"> <li>– Input / Output</li> <li>– Input / PE</li> <li>– Output / PE</li> </ul>	3000 VAC 1500 VAC 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.

### General Specifications (continued)

Electromagnetic compatibility (EMC), emissions	<ul style="list-style-type: none"> <li>- Conducted input RI suppression</li> <li>- Harmonic current emissions</li> <li>- Voltage flicker</li> </ul>	EN 55022 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"> <li>- Electrostatic discharge ESD</li> <li>- RF field immunity</li> <li>- Electrical fast transients/burst immunity</li> <li>- Surge</li> <li>- Conducted RF</li> <li>- Magnetic field</li> <li>- Voltage dip</li> </ul>	according EN 55024 IEC/EN 61000-4-2, 4 kV / 8 kV, perf. criteria A IEC/EN 61000-4-3, 23 V/m, perf. criteria A IEC/EN 61000-4-4, $\pm 2$ 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 style="list-style-type: none"> <li>- UL/cUL</li> <li>- CB report</li> </ul>	<a href="http://www.ul.com">www.ul.com</a> → certifications → File: e188913 <a href="http://www.tracopower.com/overview/txl">www.tracopower.com/overview/txl</a>
Environmental compliance	<ul style="list-style-type: none"> <li>- Reach</li> <li>- RoHS</li> </ul>	<a href="http://www.tracopower.com/products/reach-declaration.pdf">www.tracopower.com/products/reach-declaration.pdf</a> RoHS directive 2011/65/EU
Connection		5 pole terminal pitch (762mm with plastic cover)
Casing material		nickel plated steel (chassis and cover)
Weight		0.18 kg

### Outline Dimensions



Dimensions in [mm], ( ) = Inch  
 Tolerances  $\pm 0.5$  ( $\pm 0.02$ )