## **III TRACO POWER**

## **AC/DC Enclosed Power Supply**

TXL 035 Series, 35 Watt

- Compact metal case with screw terminal block
- Dual 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	Output voltage		Output current max.		Efficiency
	max.	Vout 1	Vout 2	Vout 1	Vout 2	typ.
TXL 035-3.3S	30 W	3.3 VDC		9.0 A		74 %
TXL 035-05S	35 W	5 VDC		7.0 A		79 %
TXL 035-12S	36 W	12 VDC		3.0 A		82 %
TXL 035-15S	36 W	15 VDC		2.4 A		84 %
TXL 035-24S	36 W	24 VDC		1.5 A		85 %
TXL 035-48S	38 W	48 VDC		0.8 A		86 %
TXL 035-0512D 1)	35 W	+5 VDC	+12 VDC	4.0 A	2.5 A	79 %
TXL 035-0524D 1)	35 W	+5 VDC	+24 VDC	4.0 A	1.3 A	79 %
TXL 035-1212D 1)	36 W	+12 VDC	-12 VDC	3.0 A	1.5 A	83 %
TXL 035-1515D 1)	36 W	+15 VDC	-15 VDC	2.4 A	1.5 A	84 %

<sup>1)</sup> Total power should not exceed max. output power



Input Specification	IS		
Input voltage range	<ul><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		1.0 A max.
Input inrush current	- at 115 VAC / 230 VAC		30 A max. / 50 A max.
Zero load power consump	tion or	ly single output models:	0.5 W max. (green mode function)
Recommended circuit brea	<b>aker</b> (characteristic C or slow bow	fuse)	5 A
Output Specification	ons		
Output voltage adjustment	trange		<b>±10 %</b> (only Vout 1)
Regulation	- Input variation - Load variation (20 - 100%)	main output: Vout 2:	
Minimum load		single output models: dual output models:	not required Vout 1 requires 0.3 A
Temperature coefficient			0.02 %/K
Start-up time			1 s max.
Rise time		single output models: dual output models:	20 ms max. 30 ms max.
Hold-up time		single output models: dual output models:	40 ms min. 60 ms min.
Ripple and noise (20Mhz Bandwidth)	<ul><li>measured with external capa</li><li>Vout 1</li><li>Vout 2</li></ul>	citors: 3.3 & 5 Vout models: 12 Vout model: 15 & 24 Vout models: 48 Vout models: (-)12 VDC models: 15 VDC models:	150 mVp-p typ.
Overload protection by cur	rrent limitation		105 – 150 % of lout max.
Short circuit protection			hiccup mode (automatic recovery)
Overvoltage protection (La	tch off, recovery after restart)		<b>115 – 140 % of nominal Vout</b> (only Vout 1)
Capacitive load			www.tracopower.com/products/txl-capload.pdf
General Specificati	ions		
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 +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.)	- Input / Output - Input / PE - Output / PE		3000 VAC 1500 VAC 500 VAC
Isolation resistance (at 500	O VDC)		100 MOhm min.
Leakage current (at 264 VA	AC/60Hz)		1 mA max.

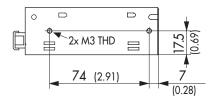
All specifications valid at nominal input voltage, full load and +25°C after warm-up time unless otherwise stated.

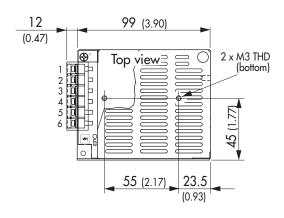


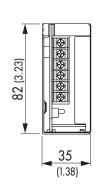
Switching frequency		65 kHz typ. (pulse width modulation)	
Reliability (calculated MTBF)	single output models: dual output models:	> 400'000 h	
Electromagnetic compatibility (EMC), emissions  - Conducted input RI suppre - Harmonic current emission - Voltage flicker	EN 55022 class B, FCC Part 15 level B IEC/EN 61000-3-2, class A IEC/EN 61000-3-3		
Electromagnets compatibility (EMC), immunity  - Electrostatic discharge ES  - RF field immunity  - Electrical fast transients/b  - Surge  - Conducted RF  - Magnetic field  - Voltage dip		according EN 55024 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	single output models: dual output models:	5 pole terminal pitch (9.5mm with plastic cover) 6 pole terminal pitch (8.25mm with plastic cover)	
Casing material		nickel plated steel (chassis and cover)	
Weight	single output models: dual output models:	0.34 kg 0.35 kg	



## **Outline Dimensions**







Screw Terminal				
Pin	Single	Dual		
1	AC L	AC L		
2	AC N	AC N		
3	PE	PE		
4	– Vout	Common		
5	+ Vout	Vout 1		
6	no con.	Vout 2		

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

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