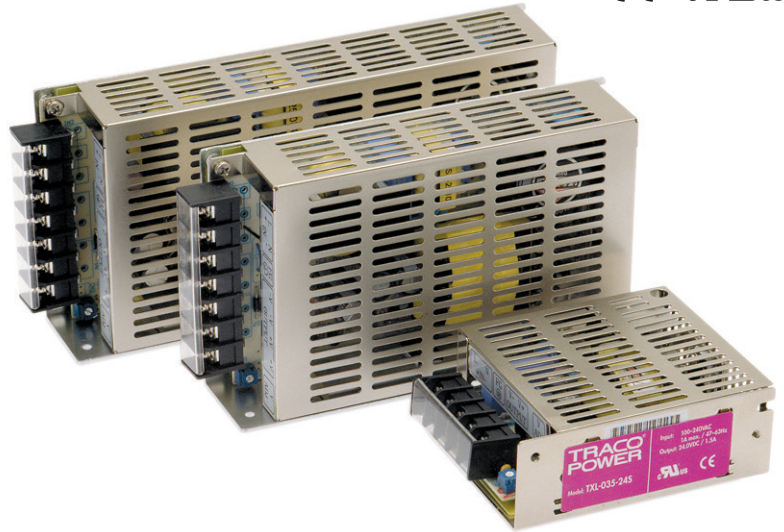


### Features

- ◆ Compact metal case with screw terminal block
- ◆ Dual and triple 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 (PFC)
- ◆ Short circuit and overvoltage protection
- ◆ International safety approvals



The TRACOPOWER TXL series is a family of enclosed 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.

There are 64 models in this range with single, dual, and triple output voltages from 3.3 VDC to 48 VDC in 12 power ranges from 15 W to 1000 W. These power supplies have universal input and comply with European EMC standards and the Low Voltage Directive (LVD).

### Models with Multiple Output

Order Code	Case Type	Output Power max.	* Output 1 (Main Output)	* Output 2	* Output 3
TXL 035-0512D TXL 035-0524D TXL 035-1212D TXL 035-1515D	D	35 Watt	+5 VDC/ 4.0 A +5 VDC/ 4.0 A +12 VDC/ 3.0 A +15 VDC/ 2.4 A	+12 VDC/ 2.5 A +24 VDC/ 1.3 A -12 VDC/ 1.5 A -15 VDC/ 1.5 A	
TXL 060-0512DI TXL 060-0524DI TXL 060-0521TI TXL 060-0522TI TXL 060-0533TI TXL 060-0534TI	E	60 Watt	5 VDC/ 8.0 A 5 VDC/ 6.0 A 5 VDC/ 8.0 A 5 VDC/ 7.0 A 5 VDC/ 7.0 A 5 VDC/ 6.0 A	12 VDC/ 4.0 A 24 VDC/ 2.2 A 12 VDC/ 3.5 A 12 VDC/ 3.5 A 15 VDC/ 3.0 A 12 VDC/ 1.5 A	5 VDC/ 1.0 A 12 VDC/ 1.0 A 15 VDC/ 1.0 A 24 VDC/ 1.2 A
TXL 100-0512DI TXL 100-0524DI TXL 100-0521TI TXL 100-0522TI TXL 100-0533TI TXL 100-0534TI	J	100 Watt	5 VDC/ 12.0 A 5 VDC/ 12.0 A 5 VDC/ 12.0 A 5 VDC/ 12.0 A 5 VDC/ 12.0 A 5 VDC/ 12.0 A	12 VDC/ 7.0 A 24 VDC/ 3.5 A 12 VDC/ 5.0 A 12 VDC/ 5.0 A 15 VDC/ 4.0 A 12 VDC/ 4.0 A	5 VDC/ 1.5 A 12 VDC/ 1.5 A 15 VDC/ 1.5 A 24 VDC/ 2.0 A

\* Total power must not exceed specified max. output power

### Input Specifications

Input voltage range	– nominal – AC range (universal input)  – DC range	100 – 240 VAC 85 – 264 VAC for 15 to 300 Watt model 90 – 264 VAC for 600 & 1000 Watt models 120 – 375 VDC for 15 to 350 Watt model 127 – 375 VDC for 750 & 1000 Watt models																														
Input voltage frequency		47 – 63 Hz																														
Input current (at full load)		<table border="0"> <tr> <td></td> <td><math>V_{in} = 115 \text{ VAC}</math></td> <td><math>V_{in} = 230 \text{ VAC}</math></td> </tr> <tr> <td>TXL 015/025 models:</td> <td>0.50 A typ.</td> <td>0.22 A typ.</td> </tr> <tr> <td>TXL 035 models:</td> <td>0.70 A typ.</td> <td>0.42 A typ.</td> </tr> <tr> <td>TXL 060/070 models:</td> <td>1.00 A typ.</td> <td>0.60 A typ.</td> </tr> <tr> <td>TXL 100 models:</td> <td>1.65 A typ.</td> <td>0.95 A typ.</td> </tr> <tr> <td>TXL 150 models:</td> <td>2.10 A typ.</td> <td>1.10 A typ.</td> </tr> <tr> <td>TXL 230 models:</td> <td>3.20 A typ.</td> <td>1.70 A typ.</td> </tr> <tr> <td>TXL 350 models:</td> <td>3.30 A typ.</td> <td>1.70 A typ.</td> </tr> <tr> <td>TXL 750 models:</td> <td>8.0 A typ.</td> <td>3.90 A typ.</td> </tr> <tr> <td>TXL 1000 models:</td> <td>11.0 A typ.</td> <td>5.0 A typ.</td> </tr> </table>		$V_{in} = 115 \text{ VAC}$	$V_{in} = 230 \text{ VAC}$	TXL 015/025 models:	0.50 A typ.	0.22 A typ.	TXL 035 models:	0.70 A typ.	0.42 A typ.	TXL 060/070 models:	1.00 A typ.	0.60 A typ.	TXL 100 models:	1.65 A typ.	0.95 A typ.	TXL 150 models:	2.10 A typ.	1.10 A typ.	TXL 230 models:	3.20 A typ.	1.70 A typ.	TXL 350 models:	3.30 A typ.	1.70 A typ.	TXL 750 models:	8.0 A typ.	3.90 A typ.	TXL 1000 models:	11.0 A typ.	5.0 A typ.
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Recommended circuit breaker (characteristic C) or slow blow fuse	up to 70 Watt models: up to 350 Watt models: TXL 750 & 1000 Watt models:	5 A 10 A 16 A																														

### Output Specifications

Output voltage adjustment range		±10 % – 35 Watt dual output models: range $V_{out} 1-2$ – other multi output models: $V_{out} 1$														
Regulation	– Input variation – Load variation (10–100%)  – Minimum load on main output of multiple output models: (to provide the regulation on the auxiliary outputs)	<table border="0"> <tr> <td>single output models:</td> <td>1 % max.</td> </tr> <tr> <td>multiple output models:</td> <td>2 % max.</td> </tr> <tr> <td></td> <td>4 % max. for main output</td> </tr> <tr> <td></td> <td>6 % max. for output 2/3 (20–100 % load)</td> </tr> <tr> <td></td> <td>0.3 A for TXL 035</td> </tr> <tr> <td></td> <td>1.0 A for TXL 060</td> </tr> <tr> <td></td> <td>1.5 A for TXL 100</td> </tr> </table>	single output models:	1 % max.	multiple output models:	2 % max.		4 % max. for main output		6 % max. for output 2/3 (20–100 % load)		0.3 A for TXL 035		1.0 A for TXL 060		1.5 A for TXL 100
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	0.3 A for TXL 035															
	1.0 A for TXL 060															
	1.5 A for TXL 100															
Ripple and noise (20 MHz bandwidth)	3.3 VDC output Output 3 (on triple output models) all other output voltages	< 50 mV < 1.5 % of $V_{out}$ < 1.0 % of $V_{out} \text{ nom.}$														
Output current limitation		105 % – 150 % of $I_{out} \text{ max.}$														
Overload protection mode		Fold back, automatic recovery														
Over voltage protection (only output 1)		115 % – 140 % of $V_{out} \text{ nom.}$ (depending on model)														
Capacitive load, max.		<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>– Load derating above 45°C</li> <li>– Storage (non operating)</li> </ul>	–10°C to +70°C 2 %/°K (2.5 %/°K for TXL 120/230/1000) –10°C to +75°C
Temperature coefficient		0.02 %/°C
Efficiency		70 – 84 % (depending on model)
Humidity (non condensing)		85 % rel max. (non condensing)
Switching frequency		50 kHz typ. (pulse width modulation)
Hold-up time		20 ms min.
Isolation voltage (60 sec.)	<ul style="list-style-type: none"> <li>– Input/Output</li> <li>– Input/Case</li> <li>– Output/Case</li> <li>– Output/Output</li> </ul>	3'000 VAC 1'500 VAC 500 VAC 60–100 Watt multiple output models: 500 VAC (for all outputs of triple output models!) 35 Watt dual output models: outputs not isolated
Reliability /calculated MTBF (MIL-HDBK-217F, at +25°C typ., ground benign)		>250'000 h
Electromagnetic compatibility (EMC), Emissions	<ul style="list-style-type: none"> <li>– Conducted input RI suppression</li> <li>– Harmonic current emissions</li> <li>– Flicker</li> </ul>	EN 55022, class B, FCC part 15, level B IEC/EN 61000-3-2, class D (TXL 120/150/220) IEC/EN 61000-3-2, class A (others) IEC/EN 61000-3-3
Electromagnetic 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>	IEC/EN 61000-4-2 4 kV / 8 kV IEC/EN 61000-4-3 3 V/m IEC/EN 61000-4-4 1 kV IEC/EN 61000-4-5 1 kV / 2 kV IEC/EN 61000-4-6 3 V/m IEC/EN 61000-4-8 3 A/m IEC/EN 61000-4-11
Safety standards		UL 60950-1, IEC/EN 60950-1 2nd edition
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 TXL 015 models: <a href="http://www.tracopower.com/products/txl015-cb.pdf">www.tracopower.com/products/txl015-cb.pdf</a> TXL 025 models: <a href="http://www.tracopower.com/products/txl025-cb.pdf">www.tracopower.com/products/txl025-cb.pdf</a> TXL 035 models: <a href="http://www.tracopower.com/products/txl035-cb.pdf">www.tracopower.com/products/txl035-cb.pdf</a> TXL 060/070 models: <a href="http://www.tracopower.com/products/txl060-cb.pdf">www.tracopower.com/products/txl060-cb.pdf</a> TXL 100 models: <a href="http://www.tracopower.com/products/txl100-cb.pdf">www.tracopower.com/products/txl100-cb.pdf</a> TXL 150 models: <a href="http://www.tracopower.com/products/txl150-cb.pdf">www.tracopower.com/products/txl150-cb.pdf</a> TXL 230 models: <a href="http://www.tracopower.com/products/txl230-cb.pdf">www.tracopower.com/products/txl230-cb.pdf</a> TXL 350 models: <a href="http://www.tracopower.com/products/txl350-cb.pdf">www.tracopower.com/products/txl350-cb.pdf</a> TXL 750 models: <a href="http://www.tracopower.com/products/txl750-cb.pdf">www.tracopower.com/products/txl750-cb.pdf</a> TXL 1000 models: <a href="http://www.tracopower.com/products/txl1000-cb.pdf">www.tracopower.com/products/txl1000-cb.pdf</a>
Environmental compliance	<ul style="list-style-type: none"> <li>– Reach</li> <li>– RoHS</li> </ul>	<a href="http://www.tracopower.com/products/txl-reach.pdf">www.tracopower.com/products/txl-reach.pdf</a> RoHS directive 2011/65/EU
Casing material	TXL 025/035 TXL 50/60/70/100 others	nickel plated steel (chassis & cover) aluminium (chassis), nickel plated steel (cover) aluminium (chassis & cover)

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

**Case Dimensions**

**Case D**

Connection		
	single	dual
1	AC L	AC L
2	AC N	AC N
3	AC FG	AC FG
4	-Vout	Common
5	+Vout	Vout 1
6	No con.	Vout 2

**Weight:** 0.3 kg (10 oz)

Max mounting screw penetration: 2.0 mm (0.08)

