

**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 85 – 264 VAC for 15 to 350 Watt model 90 – 264 VAC for 750 & 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)		Vin = 115 VAC      Vin = 230 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.
Input current (at no load)		Vin = 115 VAC      Vin = 230 VAC TXL 015/025 models: 10 mA typ.      17 mA typ. TXL 035 models: 50 mA typ.      55 mA typ. TXL 230/350 models: 115 mA typ.      140 mA typ. TXL 750 models: 210 mA typ.      220 mA typ. TXL 1000 models: 330 mA typ.      350 mA typ. other models: 100 mA typ.      80 mA typ.
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 Vout 1–2 – other multi output models: Vout 1
Regulation	<ul style="list-style-type: none"> <li>– Input variation</li> <li>– Load variation (10–100%)</li> <li>– Minimum load on main output of multiple output models: (to provide the regulation on the auxiliary outputs)</li> </ul>	1 % max. single output models: 2 % max. multiple output models: 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
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 Vout < 1.0 % of Vout nom.
Output current limitation		105 % – 150 % of Iout max.
Overload protection mode		Fold back, automatic recovery
Over voltage protection (only output 1)		115 % – 140 % of Vout 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>	<p>-20°C to +70°C 2 %/°K (2.5 %/°K for TXL 120/230/1000) -40°C to +85°C</p>
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>	<p>3'000 VAC 1'500 VAC 500 VAC</p> <p>60–100 Watt multiple output models: 500 VAC (for all outputs of triple output models!) 35 Watt dual output models: outputs not isolated</p>
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>	<p>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</p>
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>	<p>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</p>
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>	<p><a href="http://www.ul.com">www.ul.com</a> -&gt; certifications -&gt; File: e188913</p> <p>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></p>
Environmental compliance	<ul style="list-style-type: none"> <li>- Reach</li> <li>- RoHS</li> </ul>	<p><a href="http://www.tracopower.com/products/reach-declaration.pdf">www.tracopower.com/products/reach-declaration.pdf</a> RoHS directive 2011/65/EU</p>
Casing material	<ul style="list-style-type: none"> <li>TXL 025/035</li> <li>TXL 50/60/70/100</li> <li>others</li> </ul>	<p>nickel plated steel (chassis &amp; cover) aluminium (chassis), nickel plated steel (cover) aluminium (chassis &amp; cover)</p>

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