

- 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
- Active power factor correction
- 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 750-24S	751 W	24 VDC	31.3 A	88 %
TXL 750-48S	758 W	48 VDC	15.8 A	90 %

## 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 90 – 264 VAC 127 – 375 VDC (Designed for, no certification)
Input frequency		47 – 63 Hz
Input current at full load	– at 100 VAC	9.8 A max.
Input inrush current	– at 115 VAC / 230 VAC	50 A max. / 90 A max.
Power Factor Correction (PFC)		PF > 0.95
Recommended circuit breaker (characteristic C or slow bow fuse)		16 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>	0.5 % max. 0.5 % max.
Minimum load		not required
Temperature coefficient		0.02 %/K
Start-up time		2.0 s max.
Rise time		40 ms max.
Hold-up time	– at 230 VAC	16 ms min.
Ripple and noise (20Mhz Bandwidth)	24 Vout model: 48 Vout model: – measured with external capacitors:	200 mVp-p typ. 240 mVp-p typ. 0.1 µF and 47 µF parallel capacitor
Overload protection by current limitation		105 – 135 % of Iout max.
Short circuit protection		hiccup mode (automatic recovery)
Overvoltage protection (Latch off, recovery after restart)		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	<ul style="list-style-type: none"> <li>– Temperature</li> <li>– Low input voltage</li> </ul>	2.5 %/K above +50°C 1.0 %/V below 100 VAC
Cooling		forced airflow cooling with DC fan
Over Temperature Protection		over 90°C thermal shutdown, auto. recovery
Humidity (non condensing)		20 – 90 % rel. H max.
Altitude during operation		4000 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)		1.5 mA max.
Remote Sense		open or connected to the load (RS+, RS–)
Remote on/off	<ul style="list-style-type: none"> <li>– Power On:</li> <li>– Power Off:</li> <li>– Off idle current</li> </ul>	0 – 0.7 VDC 3 – 10 VDC 3 – 10 mA
Auxiliary power		12 V / 0.1 A (only for remote control on/off)
Power good Signal	<ul style="list-style-type: none"> <li>– DC-OK / DC-OFF:</li> <li>– Signal High (Power OK)</li> </ul>	High level TTL signal release (3 mA max.) 3.3 – 5.6 VDC / 0 – 1 VDC Power supply is above 20% of rated Vout

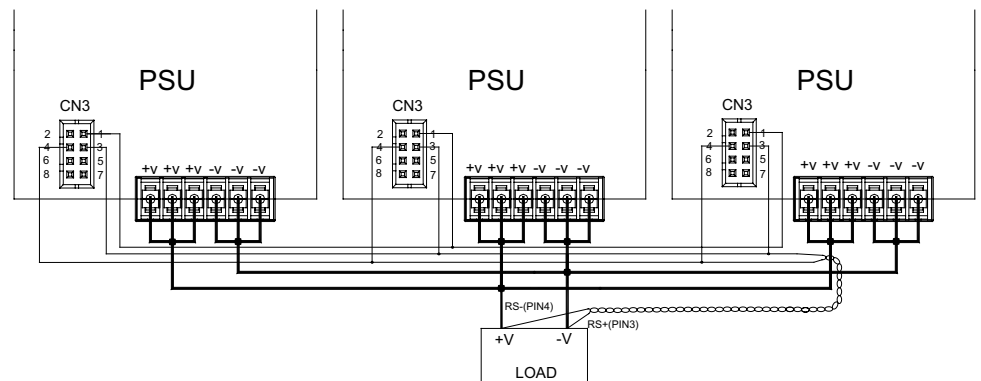
All specifications valid at nominal input voltage, full load and +25°C after warm-up time unless otherwise stated.

### General Specifications (continued)

Switching frequency	65 kHz typ. (pulse width modulation)
Reliability (calculated MTBF)	> 110'000 h
Electromagnetic compatibility (EMC), emissions <ul style="list-style-type: none"> <li>– Conducted and Radiated emissions</li> <li>– Harmonic current emissions</li> <li>– Voltage flicker</li> </ul>	EN 55032 class B, FCC Part 15 level B IEC / EN 61000-3-2, class D 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 & EN 55035 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, $\pm 2$ 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 62368-1, IEC/EN 62368-1 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
Casing material	aluminium (chassis and cover)
Weight	2.5 kg

### Application Note (Parallel operation, Remote Control)

#### Parallel operation:

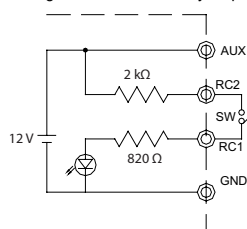


#### CN3 pin consideration:

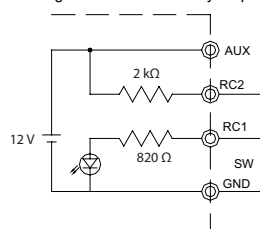
- Pin 1: Current sharing to interconnect up to 3 units at parallel operation  
Max power = units x 0.9, max deviation of voltage adjustment among units = 100mV
- Pin 2: Power Good Signal. TTL (3mA max.): 0–1 VDC = DC-Off, 3.3–5.6 VDC = DC-OK
- Pin 3/4: Remote sense to be connected at load side under regard of polarity
- Pin 5/6: Remote control input RC1 & RC2
- Pin 7/8: Auxiliary output 12 VDC / 0.1 A for remote control function (see below)

#### Remote Control On/Off:

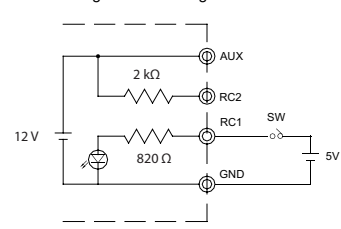
Using internal 12V auxiliary output



Using internal 12V auxiliary output

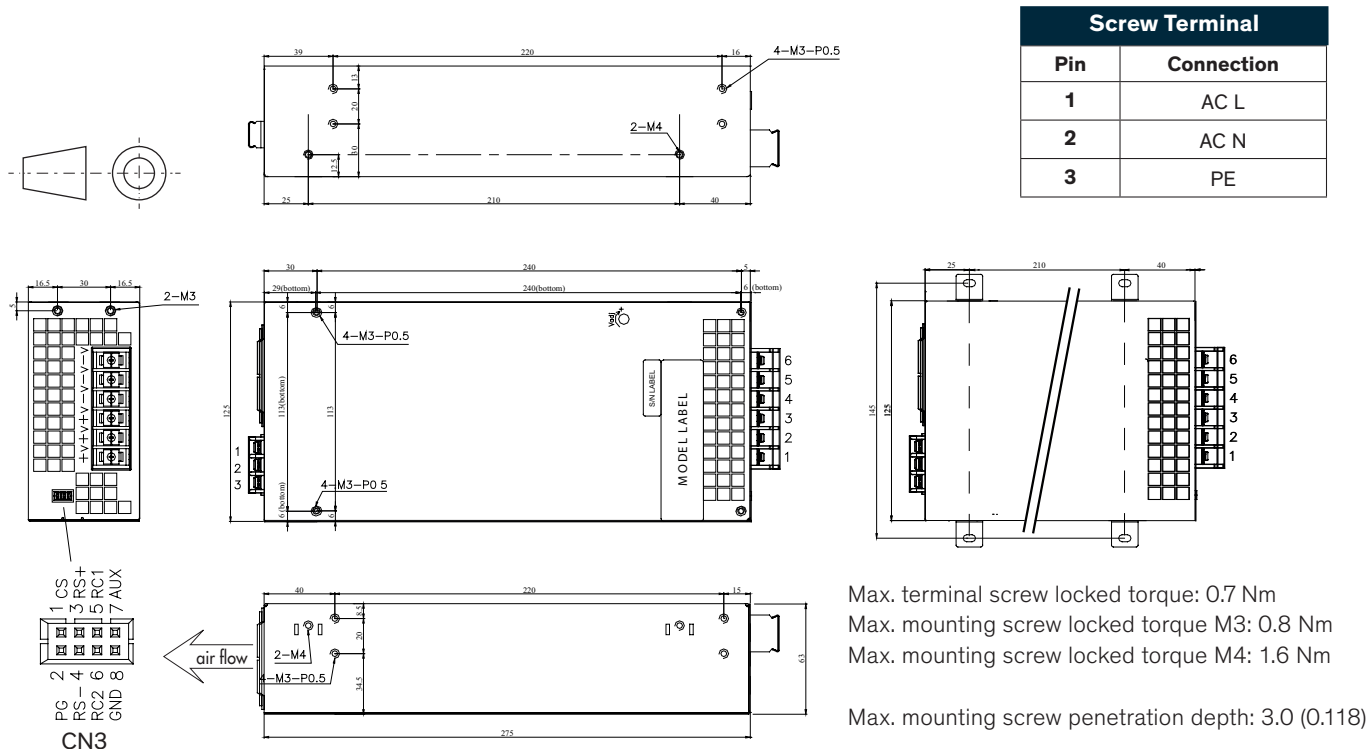


Using external voltage



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### Outline Dimensions



#### Mating connector:

- Housing: HRS DF11-08DS-2C
- Crimp: HRS DF11-EP22SCB

#### Included in shipment:

- 4x TXL-CMB chassis mount brackets included in shipment
- Connection cable with 500mm leads

Chassis Mount Brackets	
Order Code	TXL-CMB
Package	contains 4 pcs brackets and screws
Material	S.P.C.C.
Thickness	8 mm
Treatment	Nickel plated
Dimensions	Unit in [mm]

