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# TRACO POWER

## AC/DC Power Supply

## TXLN 750 Series, 750 Watt

- **Compact metal case with screw terminal block**
- **Universal input 90-264 VAC**
- **High efficiency up to 90%**
- **Active PFC >0.95**
- **Compliance to EN 61000-3-2**
- **Short circuit, overvoltage and overload protection**
- **IEC/EN/UL 62368-1 safety approvals**
- **Remote On/Off and Remote Sense**
- **Standard features: Power Good Signal, Load Sharing, 12 V Standby Output**
- **3 year product warranty**



UL 62368-1 IEC 62368-1

The TXLN 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 | Output Power max. | Output Voltage nom. (adjustable) | Output Current max. | Efficiency typ. |
|---|---|---|---|---|
| **TXLN 750-112** | 750 W | 12 VDC (10.8 - 13.2 VDC) | 62'500 mA | 88 % |
| **TXLN 750-124** | | 24 VDC (21.6 - 26.4 VDC) | 31'300 mA | 88 % |
| **TXLN 750-148** | | 48 VDC (43.2 - 52.8 VDC) | 15'800 mA | 90 % |

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## Input Specifications

| | | | |
|---|---|---|---|
| Input Voltage | - AC Range | Operational Range: | 90 - 264 VAC (Full Range) |
| | | Rated Range: | 100 - 240 VAC (Full Range) |
| | - DC Range | Operational Range: | 127 - 375 VDC (Designed for, no certification) |
| | | Polarity: | irrelevant |
| Input Frequency | | Operational Range: | 47 - 63 Hz |
| | | Certified: | 50/60 Hz |
| Input Current | - Full Load & Vin = 115 VAC | | 9'800 mA max. |
| Input Inrush Current | - At 230 VAC | | 90 A max. |
| | - At 115 VAC | | 50 A max. |
| Power Factor | - At 230 VAC | | 0.95 min. (Active Power Factor Correction) |
| | - At 115 VAC | | 0.95 min. (Active Power Factor Correction) |
| Input Protection | | | T 12 A / 250 VAC (Internal Fuse) |
| Recommended Input Fuse | | | 12'000 mA (slow blow)<br>(The need of an external fuse has to be assessed in the final application.) |

## Output Specifications

| | | | |
|---|---|---|---|
| Output Voltage Adjustment | | | ±10% (By trim potentiometer)<br>Output power must not exceed rated power! |
| Voltage Set Accuracy | | | ±1% max. |
| Regulation | - Input Variation (Vmin - Vmax) | | 0.5% max. |
| | - Load Variation (0 - 100%) | | 1% max. |
| Ripple and Noise<br>(20 MHz Bandwidth) | | 12 VDC model: | 120 mVp-p max. (w/ 0.1 µF \|\| 47 µF) |
| | | 24 VDC model: | 200 mVp-p max. (w/ 0.1 µF \|\| 47 µF) |
| | | 48 VDC model: | 240 mVp-p max. (w/ 0.1 µF \|\| 47 µF) |
| Capacitive Load | | | Infinite |
| Minimum Load | | | Not required |
| Temperature Coefficient | | | ±0.03 %/K max. |
| Hold-up Time | - At 230 VAC | | 16 ms min. |
| | - At 115 VAC | | 16 ms min. |
| Start-up Time | - At 230 VAC | | 2'000 ms max. |
| Short Circuit Protection | | | Continuous, Automatic recovery |
| Output Current Limitation | | | 105 - 135% of Iout max. |
| Overvoltage Protection | | | 115 - 140% of Vout nom. |
| Load Share Function | - Refer to application note | | www.tracopower.com/overview/txln750 |
| Load Share Accuracy | | | 10% |

## Safety Specifications

| | | |
|---|---|---|
| Safety Standards | - IT / Multimedia Equipment | EN 62368-1<br>IEC 62368-1<br>UL 62368-1 |
| | - Certification Documents | www.tracopower.com/overview/txln750 |
| Protection Class | | Class I (Prepared): Connection to PE |
| Pollution Degree | | PD 2 |
| Over Voltage Category | | OVC II |

## EMC Specifications

| | | |
|---|---|---|
| EMI Emissions | - Conducted Emissions | EN 55032 class B (internal filter) |
| | - Radiated Emissions | EN 55032 class B (internal filter) |
| | - Harmonic Current Emissions | EN 61000-3-2, class D |
| | - Voltage Fluctuations & Flicker | EN 61000-3-3 |

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

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| | | | |
|---|---|---|---|
| EMS Immunity | | | EN 55024 (IT Equipment)<br>EN 55035 (Multimedia) |
| | - Electrostatic Discharge | Air: | EN 61000-4-2, ±8 kV, perf. criteria A |
| | | Contact: | EN 61000-4-2, ±4 kV, perf. criteria A |
| | - RF Electromagnetic Field | | EN 61000-4-3, 10 V/m, perf. criteria A |
| | - EFT (Burst) / Surge | | EN 61000-4-4, ±2 kV, perf. criteria A |
| | | L to L: | EN 61000-4-5, ±2 kV, perf. criteria B |
| | | L to PE: | EN 61000-4-5, ±4 kV, perf. criteria B |
| | - Conducted RF Disturbances | | EN 61000-4-6, 10 Vrms, perf. criteria A |
| | - PF Magnetic Field | Continuous: | EN 61000-4-8, 30 A/m, perf. criteria A |
| | | 1 s: | EN 61000-4-8, 300 A/m, perf. criteria A |
| | - Voltage Dips & Interruptions | 230 VAC / 50 Hz: | EN 61000-4-11<br>30%, 25 periods, perf. criteria C<br>>95%, 0.5 periods, perf. criteria B<br>>95%, 250 periods, perf. criteria C |

## General Specifications

| | | | |
|---|---|---|---|
| Relative Humidity | | | 90% max. (non condensing) |
| Temperature Ranges | - Operating Temperature | | –20°C to +70°C |
| | - Storage Temperature | | –40°C to +85°C |
| Power Derating | - High Temperature | | 2.5 %/K above 50°C |
| | - Low Input Voltage | | 1 %/V below 100 VAC |
| | | See application note: | www.tracopower.com/overview/txln750 |
| Over Temperature Protection Switch Off | - Protection Mode | | 90°C min. / 95°C typ. / 100°C max. (Automatic recovery) |
| Cooling System | | | Forced air cooling (with internal fan) |
| Fan Power Source | - Characteristic | | Constant fan speed (continuous) |
| | - Output Voltage | | 12 VDC |
| | - Output Current | | 480 mA max. |
| Standby Power Source | - Output Voltage | | 12 VDC |
| | - Output Current | | 300 mA max. |
| Remote Control | - Voltage Controlled Remote | See application note: | www.tracopower.com/overview/txln750 |
| Altitude During Operation | | | 4'000 m max. (The max. ambient temperature decreases by 5 K / 1000 m when operated above 2000 m) |
| Switching Frequency | | | 55 - 65 kHz (PWM) |
| Insulation System | | | Reinforced Insulation |
| Working Voltage (rated) | | | 291 VAC |
| Isolation Test Voltage | - Input to Output, 60 s | | 3'000 VAC |
| | - Input to Case or PE, 60 s | | 1'500 VAC |
| | - Output to Case or PE, 60 s | | 500 VAC |
| Isolation Resistance | - Input to Output, 500 VDC | | 100 MΩ min. |
| Isolation Capacitance | - Input to Output, 100 kHz, 1 V | | 20'000 pF max. |
| Leakage Current (at 264 VAC / 60Hz) | - Earth Leakage Current | | 1500 µA max. |
| Distance Through Isolation | | | 6 mm |
| Reliability | - Calculated MTBF | | 107'000 h (MIL-HDBK-217F, ground benign) |
| Housing Material | | | Aluminum |
| Housing Type | | | Metal Case |
| Mounting Type | | | Chassis Mount |
| Connection Type | | | Screw Terminal |
| Weight | | | 2.5 kg |
| Power OK Signal | | | Voltage source output |
| | - Power OK | | High level |
| | - Power Off | | Low level |
| | | | (Refers to 'PG' and 'GND' Pin) |

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

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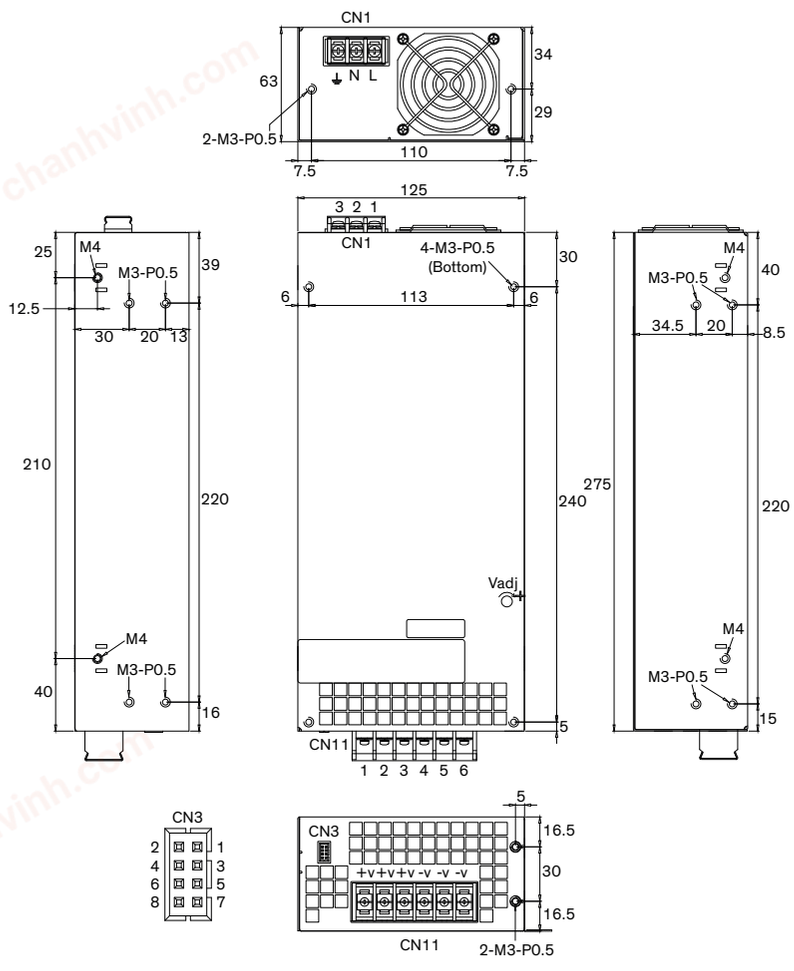


| | | |
|---|---|---|
| Status Indicator | | Indicated by green LED |
| Sense Function | | (to be done) |
| Environmental Compliance | - REACH Declaration | www.tracopower.com/info/reach-declaration.pdf |
| | | REACH SVHC list compliant |
| | | REACH Annex XVII compliant |
| | - RoHS Declaration | www.tracopower.com/info/rohs-declaration.pdf |
| | | Exemptions: 7a, 7c-I |
| | | (RoHS exemptions refer to the component concentration only, not to the overall concentration in the product (O5A rule). The SCIP number is provided on request.) |

## Supporting Documents

| | |
|---|---|
| Overview Link (for additional Documents) | www.tracopower.com/overview/txln750 |

## Outline Dimensions




Dimensions in mm
Tolerances:
0-8: ±0.2
8-25: ±0.3
25-80: ±0.5
80-250: ±0.8

Mounting screws
Max. screw penetration depth: 3.0
Max. screw locked torque M3: 0.8 Nm
Max. screw locked torque M4: 1.6 Nm

Included in shipment:
- 6x M3 mounting screw

**Input**

**CN1**

| Pin | Function |
|---|---|
| 1 | AC (L) |
| 2 | AC (N) |
| 3 | PE |

**Auxiliary**

**CN3**

| Pin | Function |
|---|---|
| 1 | LS |
| 2 | PG |
| 3 | +Sense |
| 4 | –Sense |
| 5 | –Remote |
| 6 | +Remote |
| 7 | Standby |
| 8 | GND |

**Output**

**CN11**

| Pin | Function |
|---|---|
| 1-3 | +Vout |
| 4-6 | –Vout |

**CN1:**
3 pin, 10mm pitch
with PC cover

**CN11:**
6 pin, 11 mm pitch

**CN3 Housing Type:**
HRS DF11-8DP-2DSA

**CN3 Mating Housing:**
HRS DF11-8DS-2C

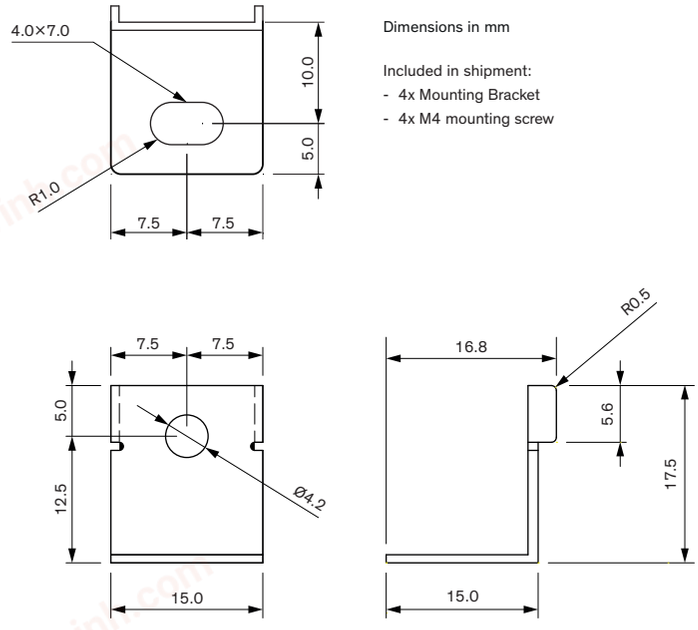
**CN3 Crimp Contact:**
HRS DF11-EP22SCB

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**Mounting Bracket (included)**




Dimensions in mm

Included in shipment:
- 4x Mounting Bracket
- 4x M4 mounting screw

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