

- Compact metal case with screw terminal block
- Universal input 90-264 VAC
- I/O reinforced isolation 3000 VAC
- Active power factor correction >0.9
- Internal EN 55032 class B filter
- High efficiency up to 93%
- Operating temperature range -30°C to 70+°C
- Short circuit, overvoltage and overload protection  
Remote ON/OFF, Remote Sense function
- IEC/EN/UL 62368-1 safety approvals
- 3-year product warranty



UL 62368-1

The TXN 500 is a cost efficient, metal enclosed AC/DC power supplies series and is designed for industrial applications. With a low-profile metal case and screw terminal block connection, they are easy to install in any equipment. Active PFC (>0.9), internal EMC filter, high IO-isolation and wide temperature range qualify them for numerous industrial applications. All models within the TXN 500 series have universal input (90-264 VAC) and comply with the latest industrial standard IEC/EN/UL 62368-1, European EMC standards and the Low Voltage Directive (LVD).

### Models

Order Code	Output Power max.	Output Voltage nom. (adjustable)	Output Current max.	Efficiency typ.
TXN 500-112	500 W	12 VDC (10.8 - 13.2 VDC)	41'700 mA	90 %
TXN 500-115		15 VDC (13.5 - 16.5 VDC)	33'400 mA	90 %
TXN 500-124		24 VDC (21.6 - 26.4 VDC)	21'000 mA	92 %
TXN 500-148		48 VDC (43.2 - 50.4 VDC)	10'500 mA	93 %

### Options

<b>TXN-AUX2</b>	- Optional Cable: <a href="http://www.tracopower.com/overview/txn-aux2">www.tracopower.com/overview/txn-aux2</a>
<b>on demand</b> (backorder with MOQ non stocking item)	- Optional model with 36 VDC and 13'800 mA

### Input Specifications

Input Voltage	- AC Range	Operational Range: <b>90 - 264 VAC</b> (Full Range) Rated Range: <b>100 - 240 VAC</b> (Full Range)
	- DC Range	Operational Range: <b>140 - 340 VDC</b> (Designed for, no certification) Polarity: <b>+DC: L / -DC: N</b>
Input Frequency		Operational Range: <b>47 - 63 Hz</b> Certified: <b>50/60 Hz</b>
Power Consumption	- No load & Vin = 230 VAC - No load & Vin = 115 VAC	<b>621 mW max.</b> (Ready to meet ErP directive) <b>655 mW max.</b>
Input Current	- Full load & Vin = 230 VAC - Full load & Vin = 115 VAC	<b>2'700 mA max.</b> <b>5'700 mA max.</b>
Input Inrush Current	- At 230 VAC - At 115 VAC	<b>50 A max.</b> <b>20 A max.</b>
Power Factor	- At 230 VAC - At 115 VAC	<b>0.9 min.</b> (Active Power Factor Correction) <b>0.9 min.</b> (Active Power Factor Correction)
Recommended Input Fuse		(The need of an external fuse has to be assessed in the final application.)

### Output Specifications

Output Voltage Adjustment		<b>-10% to +5%</b> (48 Vout model) <b>±10%</b> (other models) (By trim potentiometer) Output power must not exceed rated power!
Voltage Set Accuracy		<b>±1% max.</b>
Regulation	- Input Variation (Vmin - Vmax) - Load Variation (0 - 100%)	<b>0.5% max.</b> <b>1% max.</b>
Ripple and Noise (20 MHz Bandwidth)		12 VDC model: <b>200 mVp-p typ.</b> (w/ 0.1 µF    47 µF) 15 VDC model: <b>250 mVp-p typ.</b> (w/ 0.1 µF    47 µF) 24 VDC model: <b>200 mVp-p typ.</b> (w/ 0.1 µF    47 µF) 36 VDC model: <b>320 mVp-p typ.</b> (w/ 0.1 µF    47 µF) 48 VDC model: <b>320 mVp-p typ.</b> (w/ 0.1 µF    47 µF)
Minimum Load		<b>Not required</b>
Hold-up Time	- At 230 VAC	<b>6 ms min.</b>
Start-up Time	- At 230 VAC	<b>1'000 ms max.</b>
Short Circuit Protection		Continuous, Automatic recovery <b>110 - 150% of Iout nom.</b>
Overvoltage Protection		<b>115% typ. of Vout nom.</b>

### Safety Specifications

Standards	- IT / Multimedia Equipment - Certification Documents	<b>UL 62368-1</b> <a href="http://www.tracopower.com/overview/txn500">www.tracopower.com/overview/txn500</a>
Protection Class		<b>Class I (Prepared): Connection to PE</b>
Pollution Degree		<b>PD 2</b>
Over Voltage Category		<b>OVC II</b>

### EMC Specifications

EMI (Emissions)	- Conducted Emissions	<b>EN 55032 class A</b> (internal filter) <b>EN 55032 class B</b> (internal filter)
	- Radiated Emissions	<b>EN 55032 class A</b> (internal filter) <b>EN 55032 class B</b> (internal filter)

All specifications valid at 230 VAC, resistive full load and +25°C after warm-up time, unless otherwise stated.

EMS (Immunity)	<ul style="list-style-type: none"> <li>- Electrostatic Discharge</li> <li>- RF Electromagnetic Field</li> <li>- EFT (Burst) / Surge</li> <li>- Conducted RF Disturbances</li> <li>- Voltage Dips &amp; Interruptions</li> </ul>	EN 61000-6-2 (Generic Industrial) Air: EN 61000-4-2, $\pm 4$ kV, perf. criteria B Contact: EN 61000-4-2, $\pm 8$ kV, perf. criteria B EN 61000-4-3, 10 V/m, perf. criteria B EN 61000-4-4, $\pm 2$ kV, perf. criteria B L to L: EN 61000-4-5, $\pm 1$ kV, perf. criteria B L to PE: EN 61000-4-5, $\pm 2$ kV, perf. criteria B EN 61000-4-6, 10 Vrms, perf. criteria B 230 VAC / 50 Hz: EN 61000-4-11 30%, 25 periods, perf. criteria C >95%, 0.5 periods, perf. criteria B >95%, 250 periods, perf. criteria C
EMC / Environmental	- Certification Documents	<a href="http://www.tracopower.com/overview/txn500">www.tracopower.com/overview/txn500</a>

### General Specifications

Relative Humidity		95% max. (non condensing)
Temperature Ranges	<ul style="list-style-type: none"> <li>- Operating Temperature</li> <li>- Storage Temperature</li> </ul>	-30°C to +70°C -40°C to +80°C
Power Derating	- High Temperature	2.5 %/K above 50°C
		See application note: <a href="http://www.tracopower.com/overview/txn500">www.tracopower.com/overview/txn500</a>
Over Temperature Protection Switch Off	- Protection Mode	Automatic recovery
Cooling System		Forced air cooling (with internal fan)
Remote Control	- Voltage Controlled Remote (passive = on)	On: < 0.6 VDC or open circuit Off: 4 to 10 VDC Refers to '+Remote' and '-Remote' Pin
Altitude During Operation		2'000 m max.
Regulator Topology		LLC Converter
Switching Frequency		55 - 250 kHz (PFM)
Insulation System		Reinforced Insulation
Isolation Test Voltage	<ul style="list-style-type: none"> <li>- Input to Output, 60 s</li> <li>- Input to Case or PE, 60 s</li> <li>- Output to Case or PE, 60 s</li> </ul>	3'000 VAC 1'500 VAC 500 VAC
Isolation Resistance	- Input to Output, 500 VDC	100 M $\Omega$ min.
Leakage Current (at 240 VAC)	<ul style="list-style-type: none"> <li>- Earth Leakage Current</li> <li>- Touch Current</li> </ul>	3.5 mA max. 250 $\mu$ A max.
Reliability	- Calculated MTBF	142'600 h (MIL-HDBK-217F, ground benign)
Environment	<ul style="list-style-type: none"> <li>- Vibration</li> <li>- Mechanical Shock</li> </ul>	2 g, 3 axis, 60 min, 10-500 Hz, 10 min/cycle 20 g, 3 axis, 3 shocks
Housing Type		Metal Case
Mounting Type		Chassis Mount
Connection Type		Screw Terminal
Weight		970 g
Status Indicator		Indicated by green LED
Sense Function		(0.2 V max.)
Environmental Compliance	<ul style="list-style-type: none"> <li>- REACH Declaration</li> <li>- RoHS Declaration</li> <li>- SCIP Reference Number</li> </ul>	<a href="http://www.tracopower.com/info/reach-declaration.pdf">www.tracopower.com/info/reach-declaration.pdf</a> REACH SVHC list compliant REACH Annex XVII compliant <a href="http://www.tracopower.com/info/rohs-declaration.pdf">www.tracopower.com/info/rohs-declaration.pdf</a> Exemptions: 7a, 7c-I (RoHS exemptions refer to the component concentration only, not to the overall concentration in the product (O5A rule).) 0a2c409a-1ecc-4b12-91e4-43f960573514

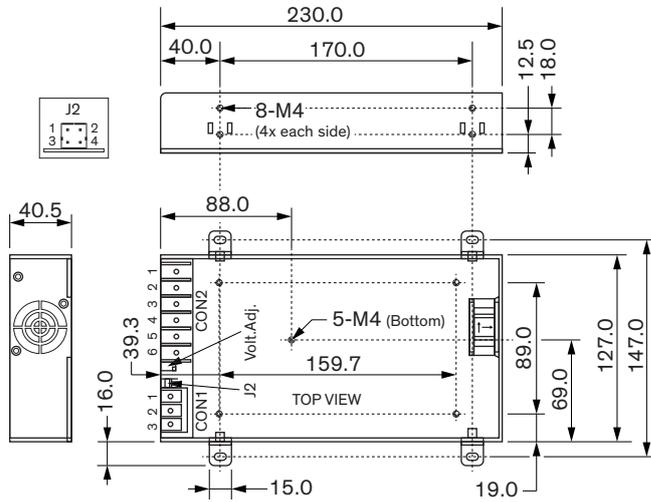
All specifications valid at 230 VAC, resistive full load and +25°C after warm-up time, unless otherwise stated.

### Supporting Documents

[Overview Link](#) (for additional Documents)

[www.tracopower.com/overview/txn500](http://www.tracopower.com/overview/txn500)

### Outline Dimensions

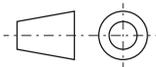


Dimensions in mm

Terminals screw tightening torque: Max. 1.2 Nm

Mounting screw tightening torque: Max. 0.8 Nm

Mounting screw penetration depth: Max. 3 mm



### Pin connectors

Input (CON1)		Output (CON2)	
Pin	Function	Pin	Function
1	PE	1	+Vout
2	AC (N)	2	
3	AC (L)	3	
AUX (J2)		4	-Vout
1	-Sense	5	
2	+Sense	6	
3	-Remote		
4	+Remote		

**Input:** Screw terminal, M4x7

Wire gauge range: 22-12 AWG ( $\pm 0.32-3.3\text{mm}^2$ )

**Output:** Screw terminal, M4x7

Wire gauge range: 22-12 AWG ( $\pm 0.32-3.3\text{mm}^2$ )

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