TRACO POWER

AC/DC Industrial Power Supply

TXN 100 Series, 100 Watt

- **Compact metal case with screw terminal block**
- **Universal input 90-264 VAC**
- **High efficiency up to 86%**
- **No active PFC**
- **Compliance to EN 61000-3-2**
- **Short circuit, overvoltage and overload protection**
- **IEC/EN/UL 62368-1 safety approvals**
- **3-year product warranty**

UL 62368-1 IEC 62368-1

The new TXN line comprises a series of cost efficient, metal enclosed AC/DC power supplies 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. The TXN power supplies are completely convection cooled. Internal EMC filter, high IO-isolation and wide temperature range qualify them for numerous industrial applications. These power supplies have universal input 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 100-105	80 W	5 VDC (4.5 - 5.5 VDC)	16'000 mA	83 %
TXN 100-112	100 W	12 VDC (10.8 - 13.2 VDC)	8'400 mA	85 %
TXN 100-115		15 VDC (13.5 - 16.5 VDC)	6'700 mA	85 %
TXN 100-124		24 VDC (21.6 - 26.4 VDC)	4'200 mA	85 %
TXN 100-148	105 W	48 VDC (44.0 - 52.0 VDC)	2'200 mA	86 %

Options

on demand (backorder with MOQ non stocking item)	- Optional model with 36 VDC and 2'800 mA

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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:	140 - 340 VDC (Designed for, no certification)
		Polarity:	+DC: L / –DC: N
Input Frequency		Operational Range:	47 - 63 Hz
		Certified:	50/60 Hz
Power Consumption	- No load & Vin = 230 VAC		1 W max.
	- No load & Vin = 115 VAC		1 W max.
Input Current	- Full load & Vin = 230 VAC		1.2 A max.
	- Full load & Vin = 115 VAC		1.9 A max.
Input Inrush Current	- At 230 VAC		60 A max.
	- At 115 VAC		30 A max.
Input Protection			T 3.15 A / 250 VAC (Internal Fuse in L)
Recommended Input Fuse			(The need of an external fuse has to be assessed in the final application.)

Output Specifications

Output Voltage Adjustment			±8% (36 & 48 Vout output models) ±10% (other output models) (By trim potentiometer) Output power must not exceed rated power!
Voltage Set Accuracy			±2% max. (5 Vout model) ±1% max. (other models)
Regulation	- Input Variation (Vmin - Vmax)		0.5% max.
	- Load Variation (0 - 100%)		2% max. (5 Vout model) 1% max. (other models)
Ripple and Noise (20 MHz Bandwidth)		5 VDC model:	100 mVp-p max. (w/ 0.1 µF || 47 µF)
		12 VDC model:	120 mVp-p max. (w/ 0.1 µF || 47 µF)
		15 VDC model:	120 mVp-p max. (w/ 0.1 µF || 47 µF)
		24 VDC model:	150 mVp-p max. (w/ 0.1 µF || 47 µF)
		36 VDC model:	200 mVp-p max. (w/ 0.1 µF || 47 µF)
		48 VDC model:	200 mVp-p max. (w/ 0.1 µF || 47 µF)
Minimum Load			Not required
Temperature Coefficient			±0.03 %/K max.
Hold-up Time	- At 230 VAC		20 ms min.
	- At 115 VAC		25 ms min.
Start-up Time	- At 230 VAC		2.5 s max.
	- At 115 VAC		1.6 s max.
Start-up Overshoot Voltage			5% max.
Short Circuit Protection			Continuous, Automatic recovery
Output Current Limitation			110 - 160% of Iout max.
Overvoltage Protection			110 - 130% of Vout nom.

Safety Specifications

Standards	- IT / Multimedia Equipment	EN 62368-1 IEC 62368-1 UL 62368-1
	- Certification Documents	www.tracopower.com/overview/txn100
Protection Class		Class I (Prepared): Connection to PE
Pollution Degree		PD 2
Over Voltage Category		OVC II

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

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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 A
	- Voltage Fluctuations & Flicker		EN 61000-3-3
EMS (Immunity)			EN 55035 (Multimedia)
	- Electrostatic Discharge	Air:	EN 61000-4-2, ±8 kV, perf. criteria B
		Contact:	EN 61000-4-2, ±4 kV, perf. criteria B
	- RF Electromagnetic Field		EN 61000-4-3, 10 V/m, perf. criteria B
	- EFT (Burst) / Surge		EN 61000-4-4, ±2 kV, perf. criteria B
		L to L:	EN 61000-4-5, ±1 kV, perf. criteria B
		L to PE:	EN 61000-4-5, ±2 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
	- Voltage Dips & Interruptions	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 B
EMC / Environmental	- Certification Documents		www.tracopower.com/overview/txn100

General Specifications

Relative Humidity			95% max. (non condensing)
Temperature Ranges	- Operating Temperature		−30°C to +70°C
	- Storage Temperature		−30°C to +80°C
Power Derating	- High Temperature		2 %/K above 50°C (High Temperature)
			2.0 %/K below −25°C (Low Temperature)
	- Low Input Voltage		0.8 %/V below 115 VAC
		See application note:	www.tracopower.com/overview/txn100
Cooling System			Natural convection (20 LFM)
Altitude During Operation			5'000 m max.
Regulator Topology			Flyback Converter
Switching Frequency			65 kHz typ. (PWM)
Insulation System			Reinforced Insulation
Working Voltage (rated)			664 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
Creepage	- Input to Output		7.1 mm min.
	- Input to Case or PE		2.6 mm min.
	- Output to Case or PE		2 mm min.
Clearance	- Input to Output		7.1 mm min.
	- Input to Case or PE		2.6 mm min.
	- Output to Case or PE		2 mm min.
Isolation Resistance	- Input to Output, 500 VDC		100 MΩ min.
Isolation Capacitance	- Input to Output, 100 kHz, 1 V		4'700 pF typ.
Leakage Current (at 240 VAC / 60 Hz)	- Earth Leakage Current		1 mA max.
Reliability	- Calculated MTBF		380'000 h (MIL-HDBK-217F, ground benign)
Washing Process			Not allowed
Environment	- Vibration		2 g, 3 axis, 60 min, 10-500 Hz, 10 min/cycle
	- Mechanical Shock		20 g, 3 axis, 3 shocks
Housing Material			Aluminum (Chassis)
Housing Type			Metal Case
Mounting Type			Chassis Mount
Connection Type			Screw Terminal

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

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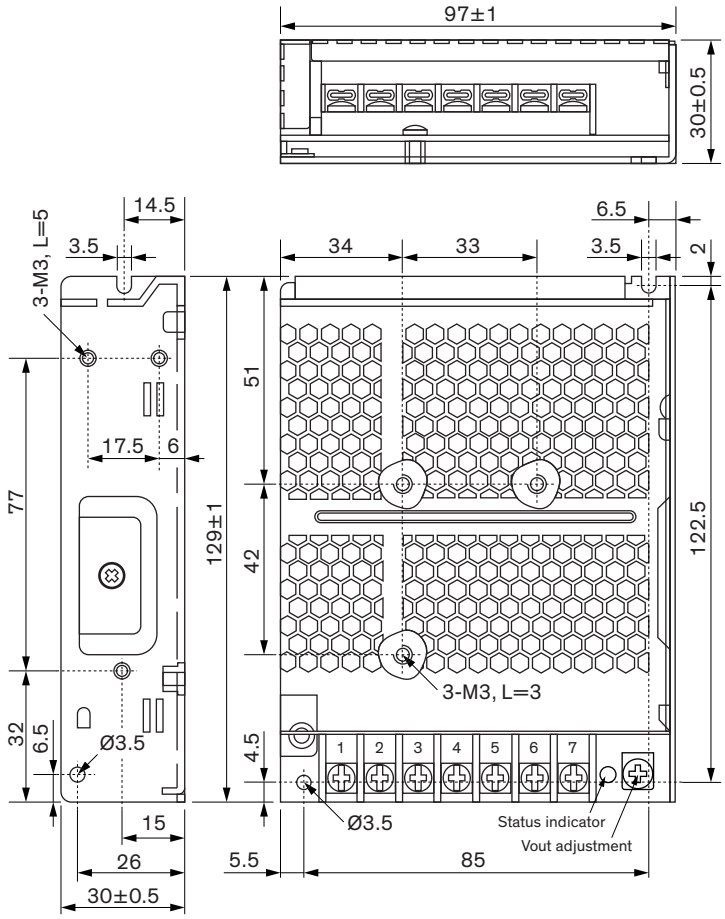
Weight		300 g
Status Indicator		Indicated by green LED
Environmental Compliance	- REACH Declaration	www.tracopower.com/info/reach-declaration.pdf REACH SVHC list compliant REACH Annex XVII compliant
	- RoHS Declaration	www.tracopower.com/info/rohs-declaration.pdf Exemptions: 7a, 7c-I (RoHS exemptions refer to the component concentration only, not to the overall concentration in the product (O5A rule).)
	- SCIP Reference Number	1bd6e5af-9967-4a4d-97a6-2a8727e52447

Supporting Documents

Overview Link (for additional Documents)	www.tracopower.com/overview/txn100

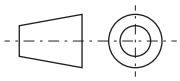
Outline Dimensions



Pinout	
Pin	**Function**
1	AC (L)
2	AC (N)
3	PE
4	−Vout
5	
6	+Vout
7	

Wiring: Conductor cross section 0.5 .. 3 mm²

Dimensions in mm (inch)
Terminal screw tightening torque: Max. 1.0 Nm
Mounting screw tightening torque: Max. 0.8 Nm
Mounting screw penetration depth: Max. 3 mm
Mounting screw lenght: Max. 5 mm



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