

- 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 91%
- Operating temperature range -30°C to +70°C
- Short circuit, overvoltage and overload protection
- IEC/EN/UL 62368-1 safety approvals
- 3-year product warranty



The TXN 800 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 800 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 800-112	756 W	12 VDC (10.0 - 13.2 VDC)	63'000 mA	90 %
TXN 800-115	765 W	15 VDC (13.5 - 15.5 VDC)	51'000 mA	90 %
TXN 800-124	792 W	24 VDC (20.0 - 26.4 VDC)	33'000 mA	91 %
TXN 800-148	796 W	48 VDC (41.0 - 56.0 VDC)	16'600 mA	91 %

Options	
TXN-AUX2	- Optional Cable: www.tracopower.com/overview/txn-aux2
on demand (backorder with MOQ non stocking item)	- Optional model with 36 VDC and 22'000 mA

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	10 W max.
	- No load & Vin = 115 VAC	10 W max.
Input Current	- Full load & Vin = 230 VAC	11 A max.
Input Inrush Current	- At 230 VAC	50 A max.
	- At 115 VAC	30 A max.
Power Factor	- At 230 VAC	0.9 min. (Active Power Factor Correction)
	- At 115 VAC	0.95 min. (Active Power Factor Correction)
Input Protection		T 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		12 VDC model: 10.0 - 13.2 VDC 15 VDC model: 13.5 - 15.5 VDC 24 VDC model: 20.0 - 26.4 VDC 36 VDC model: 32.4 - 39.6 VDC 48 VDC model: 41.0 - 56.0 VDC (By trim potentiometer) Output power must not exceed rated power!
Voltage Set Accuracy		±2% max. (12 & 15 Vout models) ±1% max. (other models)
Regulation	- Input Variation (Vmin - Vmax)	0.5% max.
	- Load Variation (10 - 90%)	2% max. (12 & 15 Vout models) 1% max. (other models)
Ripple and Noise (20 MHz Bandwidth)		12 VDC model: 150 mVp-p max. (w/ 0.1 μ F 47 μ F) 15 VDC model: 150 mVp-p max. (w/ 0.1 μ F 47 μ F) 24 VDC model: 240 mVp-p max. (w/ 0.1 μ F 47 μ F) 36 VDC model: 300 mVp-p max. (w/ 0.1 μ F 47 μ F) 48 VDC model: 300 mVp-p max. (w/ 0.1 μ F 47 μ F)
Capacitive Load		12 VDC model: 62'100 μF max. 15 VDC model: 42'300 μF max. 24 VDC model: 62'100 μF max. 36 VDC model: 41'000 μF max. 48 VDC model: 19'800 μF max.
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 s max.
	- At 115 VAC	2 s max.
Short Circuit Protection		Continuous, Automatic recovery
Output Current Limitation		105 - 150% of Iout max.
Overvoltage Protection		110 - 140% of Vout nom.

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

Safety Specifications

Standards	- IT / Multimedia Equipment	EN 62368-1 IEC 62368-1 UL 62368-1
	- Certification Documents	www.tracopower.com/overview/txn800
Protection Class	See application note:	Class I (Prepared): Connection to PE www.tracopower.com/info/protection-class.pdf
Pollution Degree		PD 2
Over Voltage Category		OVC II

EMC Specifications

EMI (Emissions)	- Conducted Emissions - Radiated Emissions - Harmonic Current Emissions - Voltage Fluctuations & Flicker	EN 55032 class B (internal filter) EN 55032 class B (internal filter) EN 61000-3-2, class A EN 61000-3-3
EMS (Immunity)	- Electrostatic Discharge - RF Electromagnetic Field - EFT (Burst) / Surge - Conducted RF Disturbances - Voltage Dips & Interruptions	EN 55035 (Multimedia) Air: EN 61000-4-2, ± 8 kV, perf. criteria B Contact: EN 61000-4-2, ± 4 kV, perf. criteria B EN 61000-4-3, 10 V/m, perf. criteria B 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 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	www.tracopower.com/overview/txn800

General Specifications

Relative Humidity		95% max. (non condensing)
Temperature Ranges	- Operating Temperature - Storage Temperature	-30°C to +70°C -40°C to +80°C
Power Derating	- High Temperature - Low Input Voltage	2.5 %/K above 50°C 1 %/V below 110 VAC
	See application note:	www.tracopower.com/overview/txn800
Over Temperature Protection Switch Off	- Protection Mode - Measurement Point	Automatic recovery Internal IC temperature
Cooling System		Forced air cooling (with internal fan)
Fan Power Source	- Characteristic	Variable fan speed (temperature regulated)
Remote Control	- Voltage Controlled Remote (passive = on) - Remote Pin Input Current	On: < 1.0 VDC or open circuit or short circuit Off: 4 to 10 VDC Refers to '+Remote' and '-Remote' Pin 0.5 to 2.5 mA
Altitude During Operation		5'000 m max.
Regulator Topology		LCC Converter
Switching Frequency		80 kHz typ. (PFM)
Insulation System		Reinforced Insulation
Isolation Test Voltage	- Input to Output, 60 s - Input to Case or PE, 60 s - Output to Case or PE, 60 s	3'000 VAC 2'500 VDC 750 VDC
Isolation Resistance	- Input to Output, 500 VDC	100 M Ω min.
Leakage Current (at 240 VAC / 60 Hz)	- Earth Leakage Current	1 mA max.
Reliability	- Calculated MTBF	136'100 h (MIL-HDBK-217F, ground benign)

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

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
Weight	800 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: 7(a), 7(c)-I (RoHS exemptions refer to the component concentration only, not to the overall concentration in the product (O5A rule).) - SCIP Reference Number 55f2a9f5-afb7-4787-9524-b405d6574da9

Additional Information

Supporting Documents	www.tracopower.com/overview/txn800
Frequently Asked Questions	www.tracopower.com/glossary-faq
Glossary	www.tracopower.com/info/glossary.pdf

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

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

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