chanhvinh.com

TRACO POWER

AC/DC Industrial Power Supply

TXN 800 Series, 800 Watt

- **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**



UL 62368-1 IEC 62368-1

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

on demand (backorder with MOQ non stocking item)	- Optional model with 36 VDC and 22'000 mA

chanhvinh.com

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 µF || 47 µF)
		15 VDC model:	150 mVp-p max. (w/ 0.1 µF || 47 µF)
		24 VDC model:	240 mVp-p max. (w/ 0.1 µF || 47 µF)
		36 VDC model:	300 mVp-p max. (w/ 0.1 µF || 47 µF)
		48 VDC model:	300 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		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.

Safety Specifications

Standards	- IT / Multimedia Equipment	EN 62368-1
		IEC 62368-1
		UL 62368-1
	- Certification Documents	www.tracopower.com/overview/txn800
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.

chanhvinh.com

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 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 B
	- 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 C
EMC / Environmental	- Certification Documents		www.tracopower.com/overview/txn800

General Specifications

Relative Humidity			95% max. (non condensing)
Temperature Ranges	- Operating Temperature		–30°C to +70°C
	- Storage Temperature		–40°C to +80°C
Power Derating	- High Temperature		2.5 %/K above 50°C
	- Low Input Voltage		1 %/V below 110 VAC
		See application note:	www.tracopower.com/overview/txn800
Over Temperature Protection Switch Off	- Protection Mode		Automatic recovery
	- Measurement Point		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)		Off: 4 to 10 VDC Refers to '+Remote' and '-Remote' Pin On: < 1.0 VDC or open circuit or short circuit
	- Remote Pin Input Current		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		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.
Leakage Current (at 240 VAC / 60 Hz)	- Earth Leakage Current		1 mA max.
Reliability	- Calculated MTBF		136'100 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
Weight			800 g
Status Indicator			Indicated by green LED

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

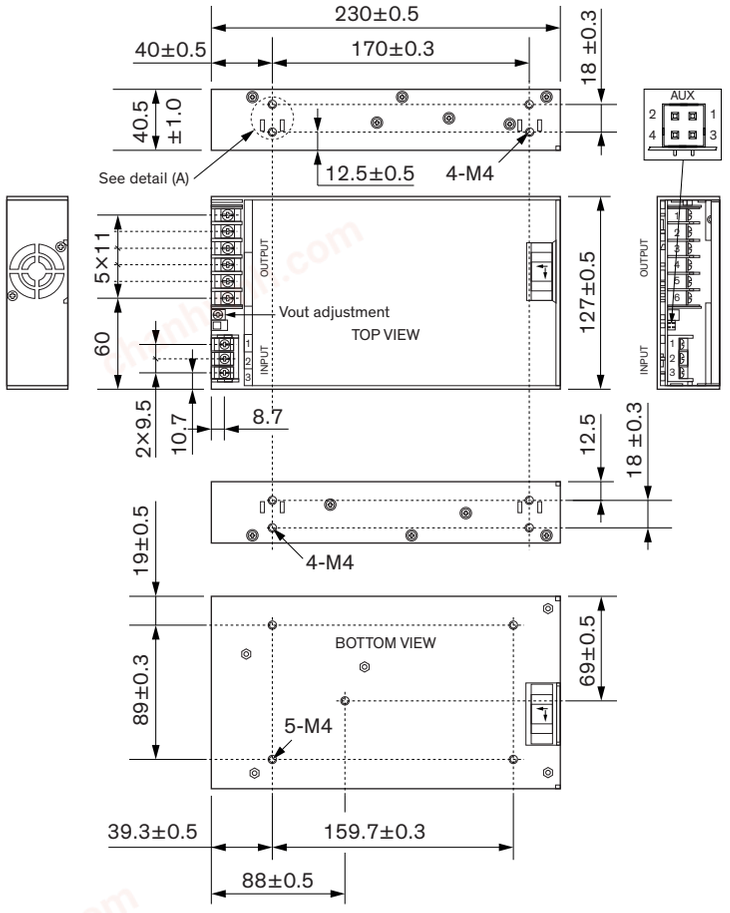
chanhvinh.com

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	55f2a9f5-afb7-4787-9524-b405d6574da9

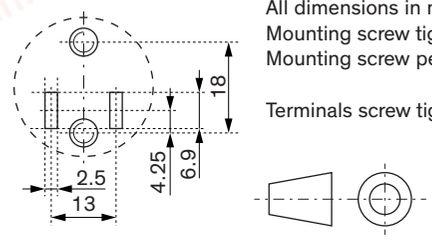
Supporting Documents

Overview Link (for additional Documents)	www.tracopower.com/overview/txn800

Outline Dimensions



Detail (A):



All dimensions in mm
Mounting screw tightening torque: Max. 0.8 Nm
Mounting screw penetration depth: Max. 4 mm

Terminals screw tightening torque: Max. 1.2 Nm

Pin connectors			
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 (≙0.32-3.3mm²)

Output: Screw terminal
Wire gauge range 22-12 AWG (≙0.32-3.3mm²)

AUX:
mating connector: YL028-106-004, 2mm pitch

© Copyright 2024 Traco Electronic AG Specifications can be changed without notice.