

- 3-year product warranty



Models				
Order Code	Output Power max.	Output Voltage nom. (adjustable)	Output Current max.	Efficiency typ.
TXN 35-103	23 W	3.3 VDC (3.0 - 3.6 VDC)	7 A	81 %
TXN 35-105	35 W	5 VDC (4.5 - 5.5 VDC)	7 A	82 %
TXN 35-112		12 VDC (10.8 - 13.2 VDC)	3 A	84 %
TXN 35-115		15 VDC (13.5 - 16.5 VDC)	2.4 A	85 %
TXN 35-124		24 VDC (21.6 - 26.4 VDC)	1.5 A	85 %
TXN 35-148	38 W	48 VDC (44.0 - 52.0 VDC)	750 mA	86 %

Options	
on demand (backorder with MOQ non stocking item)	- Optional model with 36 VDC and 1 A

Input Specifications

Input Voltage	Operational Range: 90 - 264 VAC (Full Range) Rated Range: 100 - 240 VAC (Full Range) Certified Range: 140 - 340 VDC Polarity: +DC: L / -DC: N
- DC Range	
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 500 mA max. - Full load & Vin = 115 VAC 700 mA 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 TODO)
Recommended Input Fuse	(The need of an external fuse has to be assessed in the final application.)

Output Specifications

Output Voltage Adjustment	±10% (By trim potentiometer) Output power must not exceed rated power!
Voltage Set Accuracy	±1% max.
Regulation	- Input Variation (Vmin - Vmax) 0.5% max. - Load Variation (10 - 90%) 2% max. (3.3 & 5 Vout models) 1% max. (other models)
Ripple and Noise (20 MHz Bandwidth)	3.3 VDC model: 100 mVp-p max. (w/ 0.1 µF 47 µF) 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: 150 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 22 ms min.
Start-up Time	- At 230 VAC 2.5 s max. - At 115 VAC 862 ms max.
Start-up Overshoot Voltage	2500% max.
Short Circuit Protection	Continuous, Automatic recovery
Output Current Limitation	110 - 160% of Iout max.
Overvoltage Protection	110 - 135% of Vout nom.

Safety Specifications

Standards	- IT / Multimedia Equipment	EN 62368-1 IEC 62368-1 UL 62368-1
Protection Class		Class I (Prepared): Connection to PE
Pollution Degree		PD 2
Over Voltage Category		OVC III

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

EMC Specifications

EMI Emissions	- Conducted Emissions	EN 55032 class B (internal filter)
	- Radiated Emissions	EN 55032 class B (internal filter) FCC 47 Part 15 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	

General Specifications

Relative Humidity		95% max. (non condensing)
Temperature Ranges	- Operating Temperature	-30°C to +70°C
	- Storage Temperature	-40°C to +85°C
Power Derating	- High Temperature	2 %/K above 50°C (average)
	- Low Input Voltage	2 %/V below 100 VAC
	See application note:	www.tracopower.com/overview/txn35
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		Basic 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
Creepage	- Input to Output	7.3 mm min.
	- Input to Case or PE	3.2 mm min.
	- Output to Case or PE	2 mm min.
Clearance	- Input to Output	6.1 mm min.
	- Input to Case or PE	3.2 mm min.
	- Output to Case or PE	2 mm min.
Isolation Resistance	- Input to Output, 500 VDC	100 M Ω min.
Isolation Capacitance	- Input to Output, 100 kHz, 1 V	1'000 pF typ.
Leakage Current (at 240 VAC / 60 Hz)	- Earth Leakage Current	3.5 mA max.
Reliability	- Calculated MTBF	(tbd)
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
Case Ingress Protection		IP 20 (acc. IEC 60529)
Housing Material		Aluminum (Chassis)
Housing Type		Metal Case
Mounting Type		Chassis Mount
Connection Type		Screw Terminal
Weight		200 g
Status Indicator		Indicated by green LED

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

Environmental Compliance - REACH Declaration

www.tracopower.com/info/reach-declaration.pdf

- RoHS Declaration

REACH SVHC list compliant

REACH Annex XVII compliant

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

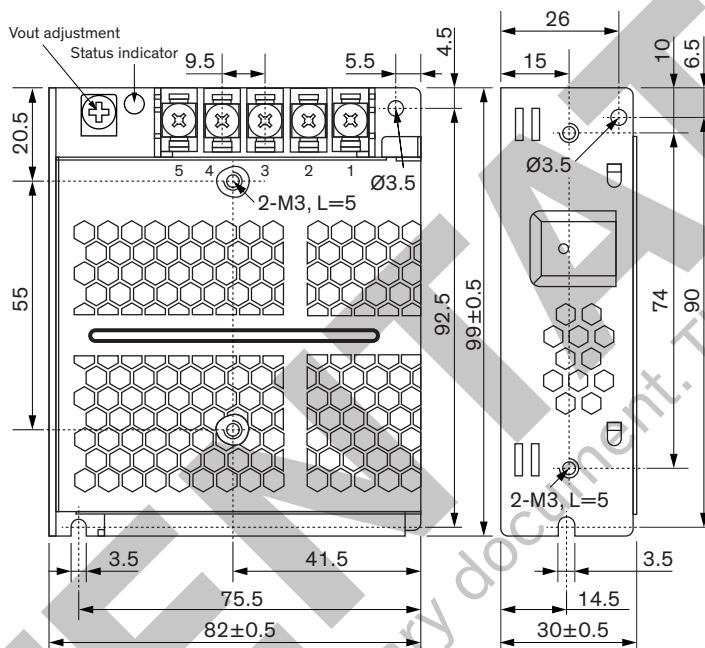
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Supporting Documents

Overview Link (for additional Documents)

www.tracopower.com/overview/txn35

Outline Dimensions



Pinout	
Pin	Function
1	AC (L)
2	AC (N)
3	PE
4	-Vout
5	+Vout

Wiring: Conductor cross section 0.5 .. 3 mm²

Dimensions in mm

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 length: Max. 5 mm

